



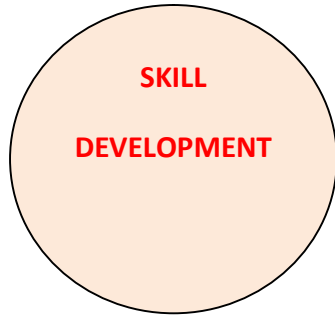
**Janata Shikshan Mandal's**

**DEVCHAND COLLEGE, ARJUNNAGAR**

**CRITERION I - CURRICULAR ASPECTS**

**Key Indicator- 1.2. Academic Flexibility**

***1.2.1. Percentage of programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented.***



**SKILL**

**DEVELOPMENT**



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA  
 PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)  
 FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094  
 शिवाजी विद्यापीठ, कोल्हापूर – 416004.  
 दुरध्वनी (ईपीएवीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)  
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref./SU/BOS/Arts/6385

Date:- 25/06/2018

The Principal  
 All Affiliated Arts (B.A.) Colleges,  
 Shivaji University,  
 Kolhapur.

Subject: Regarding syllabi and equivalence of B.A. Part- I (Sem. I & II)  
 Choice Based Credit System (CBCS) degree programme under  
 the Faculty of Humanities.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi and equivalence of B.A. Part-I (Sem. I & II ) Choice Based Credit System (CBCS) under the Faculty of Humanities.

This syllabi and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus ).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl: As above

Copy to;

1 Dean, Faculty of Humanities  
 2 Chairman, BOS under Faculty of Humanities } for information

3 Appointment Section  
 4 P.G. Admission Section  
 5 B.A. Section  
 6 Affiliation Section (U.G./P.G)  
 7 Computer Centre  
 8 Eligibility Section  
 9 Distan Education  
 10 P.G.Seminer Section } for information and necessary action.



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA  
 PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)  
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 दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)  
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref../SU/BOS/Humanities/ 6084

Date : 17/06/2019

To,

The Principal  
 All Affiliated College/Institutions,  
 Shivaji University, Kolhapur

**Subject : Regarding syllabi and equivalence of B. A. Part-II (Sem. III & IV)  
 Choice Based Credit System (CBCS) degree programme under the  
 Faculty of Humanities**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of B. A. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Humanities

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2020-2021 (i.e. from June, 2020) onwards

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

**Encl : As above**

**Copy to,**

1. I/c Dean, Faculty of Humanities
  2. Chairman, BOS under Faculty of Humanities
  3. Director, BOEE
  4. Appointment Section
  5. P. G. Admission Section
  6. B. A. Section
  7. Affiliation Section (U.G./P.G.)
  8. Computer Center/I.T.
  9. Eligibility Section
  10. Distance Education
  11. P.G. Seminer Section
- } for information
- } for information and necessary action.





SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA

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FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग— २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref../SU/BOS/Humanities/

Outward No. **1578** Date : - **4 JUL 2020**

To,

The Principal  
All Affiliated Colleges/Institutions,  
Shivaji University, Kolhapur

**Subject : Regarding syllabi and equivalence and Nature of question paper of  
B. A. Part-III (Sem. V & VI) Choice Based Credit System (CBCS)  
degree programme under the Faculty of Humanities**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised following syllabi, equivalence and nature of question paper of B. A. Part-III (Sem. V & VI) Choice Based Credit System (CBCS) under the Faculty of Humanities.

Marathi	Hindi	English	Economics	History
Sociology	Psychology	Sanskrit	Kannada	Urdu
Ardhamagadhi	Philosophy	Political Science	Geography	

This syllabi, equivalence and nature of question paper shall be implemented from the academic year 2020-2021. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (students/Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2020 & March / April, 2021. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2021-2022

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar  
Board of Studies

**Encl : As above**

**Copy to,**

I/c Dean, Faculty of Humanities	Chairperson, BOS under Faculty of Humanities
Director, BOEE	Dy.R Examination
Appointment Section	B. A. Section, O.E. 1 to 4 Examination.
P. G. Admission Section	Computer Center/I.T.
Eligibility Section	Distance Education
P.G. Seminar Section	Affiliation Section (U.G./P.G.)



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA  
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 दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग- २६०९०९४)  
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref./SU/BOS/Comm/6312

Date:- 22/06/2018

The Principal  
 All Affiliated (Commerce) Colleges/ Institutions,  
 Shivaji University, Kolhapur.

Subject: Regarding syllabi and equivalence of B.Com. Part- I (Sem. I & II)  
 Choice Based Credit System (CBCS), degree programme under  
 the Faculty of Commerce & Management.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi and equivalence of B.Com. Part-I (Sem. I & II) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

1	Business Communication	9	Hindi
2	Micro Economics	10	Urdu
3	Management Principles & Applications	11	Kannada
4	Financial Accounting	12	Business Mathematics
5	Principles of Marketing	13	Insurance
6	History of Civilization	14	Geography
7	Marathi	15	Foreign Trade
8	Global Finance		

This revised syllabi and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl: As above

Copy to;

1 Dean, Faculty of Commerce & Management } for information  
 2 Chairman, BOS under Faculty of }  
 Commerce & Management }

3 Appointment Section }  
 4 P.G. Admission Section }  
 5 B.Com. Section }  
 6 Affiliation Section (U.G./P.G) } for information and necessary action.  
 7 Computer Centre }  
 8 Eligibility Section }  
 9 Distan Education }  
 10 P.G.Seminer Section }





SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA  
 PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)  
 FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094  
 शिवाजी विद्यापीठ, कोल्हापूर – 416004.  
 दुर्ध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)  
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref../SU/BOS/Com & Mgmt./ 6032

Date : 17/06/2019

To,

The Principal  
 All Affiliated (Commerce & Management) College/Institutions,  
 Shivaji University, Kolhapur

**Subject : Regarding syllabi and equivalence of B. Com. Part-II (Sem. III & IV)  
 Choice Based Credit System (CBCS) degree programme under the  
 Faculty of Commerce & Management.**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of B. Com. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2020-2021 (i.e. from June, 2020) onwards

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

Encl : As above

Copy to,

- |  |   |                                       |
|--|---|---------------------------------------|
| 1. I/c Dean, Faculty of Commerce & Management              | } | for information                       |
| 2. Chairman, BOS under Faculty of<br>Commerce & Management |   |                                       |
| 3. Director, BOEE  | } | for information and necessary action. |
| 4. Appointment Section                                     |   |                                       |
| 5. P. G. Admission Section                                 |   |                                       |
| 6. B. Com. Section   |   |                                       |
| 7. Affiliation Section (U.G./P.G.)                         |   |                                       |
| 8. Computer Center/I.T.                                    |   |                                       |
| 9. Eligibility Section                                     |   |                                       |
| 10. Distance Education                                     |   |                                       |
| 11. P.G. Seminar Section                                   |   |                                       |

# SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

**Faculty of Commerce & Management**

Syllabus For

**Bachelor of Commerce**

**B. Com. Part II**

**(Sem III & IV)**

**To be implemented from June 2019 onwards.**

(Subject to the modifications that will be made from time to time)

**Shivaji University, Kolhapur**  
**B.Com (CBCS) Part-II (Semester-III)**  
**Corporate Accounting Paper - I**  
**Core Course**  
**Introduced from June-2019-20**

**4 Credits**

**Course Outcomes:**

1. Explain the accounting entries of issue and forfeiture of shares and re-issue of forfeited shares, discuss accounting treatment for redemption of preference shares and buyback of shares.
2. Demonstrate accounting for issue of debentures and redemption of debentures.
3. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act 2013.
4. Practice the fundamental accounting process on Tally ERP.

**Syllabus Contents**

**Unit I:** Issue and forfeiture of shares, Re-issue of forfeited shares, Redemption of preference shares and Buyback of shares. (15 Periods)

**Unit II:** Issue and Redemption of Debentures (10 Periods)

**Unit III:** Preparation of Final Accounts of Companies. (15 Periods)

**Unit IV:** Practical of Fundamental Computerised Accounting (20 Periods)

- a) Introduction to Tally ERP.9, Technological Advantages, Getting Functional with Tally ERP.9, Tally ERP.9 Start-up, Mouse/Keyboard Conventions, Switching between Screen Areas, Quitting Tally ERP.9, Setting up of Company in Tally ERP.9,
- b) Create a Company- Select a Company, Alter a Company, Shut a Company, Creating Accounting Masters in Tally ERP.9, Chart of Accounts,
- c) Pre-defined Groups of Accounts, Groups- Creating Single Group, Creating Multiple Group, Displaying Group, Altering Group,
- d) Ledgers, Creating Single Ledger, Creating Multiple Ledger, Displaying Ledger, Altering Ledger, Voucher Entry in Tally ERP.9,
- e) Accounting Vouchers- Contra Voucher (F4), Payment Voucher (F5), Receipt Voucher (F6), Journal Voucher (F7), Purchase (F9), Sales (F8), Debit Note (Ctrl + F9), Credit Note (Ctrl + F8),
- f) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,
- g) Accounting Books and Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register and Day Book.

**Notes:**

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

**Reference Books:-**

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 6) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 9) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 10) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 11) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.



**Shivaji University, Kolhapur**  
**B.Com. (CBCS) Part-II (Semester-IV)**  
**Corporate Accounting Paper - II**  
**Core Course**  
**Introduced from June-2019-20**

**4 Credits**

**Course Outcomes:**

1. Explain the accounting entries of profit/loss prior to incorporation.
2. Compute the value of shares as per distinct methods and differentiate between them.
3. Simulate practice of accounting for liquidation of companies.
4. Practice the store accounting through Tally ERP.

**Unit -I: Profit /Loss Prior to Incorporation. (15 Periods)**

**Unit-II: Valuation of shares:** Intrinsic value method, Market value Method (Capitalization of profit and dividend basis) Fair value. **( 10 Periods)**

**Unit-III: Accounting for Liquidation of companies-** Process of Liquidation under Insolvency and Bankruptcy Code, Preparation of Liquidator's Final Statement of Account. **( 15 Periods)**

**Unit-IV: Store Accounting with Practical using Tally. (20 Periods)**

Theory:

- a) Basic Concepts of Store Accounting- Importance of Material Management and Inventory Control, Objectives of Inventory Control System, Functions and Duties of Store-keeper,
- b) Key Terms- Stock items, Category of item, Item Name, Unit of Measurement- Purchase Rate per Unit, Current Stock Quantity, Current Valuation Rate, Opening Stock Quantity, Opening Valuation Rate, Purchase Returns, Sales Returns
- c) Stock Valuation Methods- Source document, Types of Source documents, Purchase Invoice, Goods Received Note, Sales Invoice, Delivery Challan
- d) Tally Reports of Store Accounting- Bill-wise List of Stock Items, Stock Statement, Material Receipts/ Purchases Register, Material Issues/ Sales Register, Material Return Report, Slow Moving Items Report, Fast Moving Items Report.

Practical:

- a) Creating Inventory Masters in Tally.ERP 9, Stock Groups- Creating Single Stock Group, Creating Multiple Stock Group, Displaying Stock Group, Altering Stock Group,
- b) Units of Measure- Simple Units, Creating Simple Units, Displaying Units of Measure, Deleting Units of Measure
- c) Stock Items- Creating Single Stock Items, Creating Multiple Stock Items, Displaying Stock Items, Altering Stock Items,
- d) Voucher Entry in Tally.ERP 9- Purchase Voucher (F9), Sales Voucher (F8), Credit Note Voucher (Ctrl + F8), Debit Note Voucher (Ctrl + F9)
- e) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,

- f) Accounting Books & Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register, Day Book, Statistics,
- g) Inventory Books & Reports- Stock Summary, Stock Item Summary, Stock Group Summary, Exception Reports- Negative Stock, Negative Summary.

**Notes:**

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

**Reference Books:-**

- 12) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 13) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 14) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 15) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 16) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 17) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 18) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 19) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 20) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 21) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 22) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

**Nature of Question Paper**  
**B.Com. Part-II**  
**Under CBCS**  
**Subject: Corporate Accounting Paper-I (Semester-III)**  
**Core Course**  
**(Introduced from June-2019-20)**

Instructions:- 1- All questions are compulsory.  
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- |   |         |
|---|---------|
| a) Question on Theory of Unit-1 Or Question on Theory of Unit-1   | 5 marks |
| b) Question on Problem of Unit-1 Or Question on Problem of Unit-1 | 5 marks |

Q.No.2 Short Answer Questions:

- |   |         |
|---|---------|
| a) Question on Theory of Unit-2 Or Question on Theory of Unit-2   | 5 marks |
| b) Question on Problem of Unit-2 Or Question on Problem of Unit-2 | 5 marks |

Q.No.3 Questions:

- |   |          |
|---|----------|
| a) Question on Theory of Unit-3 Or Question on Theory of Unit-3   | 5 marks  |
| b) Question on Problem of Unit-3 Or Question on Problem of Unit-3 | 10 marks |

Q.No.4 Short Answer Questions:

- |   |         |
|---|---------|
| a) Question on Theory of Unit-4 Or Question on Theory of Unit-4 | 5 marks |
|---|---------|

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

**Nature of Question Paper**  
**B.Com. Part-II**  
**Under CBCS**  
**Subject: Corporate Accounting Paper-II (Semester-IV)**  
**Core Course**  
**(Introduced from June-2019-20)**

Instructions:- 1- All questions are compulsory.  
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- |   |         |
|---|---------|
| c) Question on Theory of Unit-1 Or Question on Theory of Unit-1   | 5 marks |
| d) Question on Problem of Unit-1 Or Question on Problem of Unit-1 | 5 marks |

Q.No.2 Short Answer Questions:

- |   |         |
|---|---------|
| c) Question on Theory of Unit-2 Or Question on Theory of Unit-2   | 5 marks |
| d) Question on Problem of Unit-2 Or Question on Problem of Unit-2 | 5 marks |

Q.No.3 Questions:

- |   |         |
|---|---------|
| c) Question on Theory of Unit-3 Or Question on Theory of Unit-3 | 5 marks |
|---|---------|

d) Question on Problem of Unit-3 Or Question on Problem of Unit-3 10 marks

Q.No.4 Short Answer Questions:

b) Question on Theory of Unit-4 Or Question on Theory of Unit-4 5 marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

\*\*\*\*\*

**Shivaji University, Kolhapur**  
**B.Com (CBCS Pattern)**  
**Part-II (Semester-III)**  
**Fundamentals of Entrepreneurship- Paper-I**  
**Generic Elective Course**  
**Introduced from June-2019-20**

Credits-4

Objectives-

1. To impart theoretical knowledge of Entrepreneurship
2. To develop Entrepreneurship qualities and skills
3. To acquaint students with Steps involved in the formation of Small Enterprises
4. To enlighten students with Recent Trends and Concepts in Entrepreneurship

Unit-I	<b>Entrepreneur:-</b> Evolution, Meaning and Definition, Functions, Qualities of successful entrepreneur, Types of Entrepreneur, Obstacles to become an Entrepreneur, Challenges before existing entrepreneur in modern era.	15 Hours
Unit-II	<b>Entrepreneurship and Entrepreneurship Development:</b> Concept, Definitions, Importance, Theories- Joseph Schumpeter's Theory of Innovation, Hagen's theory of Status Withdrawal, David McClelland's Need for Achievement theory, Knight's Risk Taking theory, Entrepreneurship Development- Concept and Process. Introduction, Functions and Performance of – EDI, MCED And DIC	15 Hours
Unit-III	<b>Micro, Small and Medium Enterprises(MSME):</b> Definition, Importance, Problems of MSME and Remedies, Government Policy and Support, Steps involved in the formation of Small Enterprises- Location, Clearances, Permits required, Formalities, Licensing and Registration Procedure.	15 Hours
Unit-IV	<b>Recent Trends and Concepts in Entrepreneurship:</b> Recent Trends- Start up, Stand up, Skill India, Make in India, Incubation Centre- Concept and Importance. Concepts- Sociopreneur, Edupreneur, Ecopreneur, Netpreneur, Intrapreneur( Only concept and Characteristics)	15 Hours

**Shivaji University, Kolhapur**  
**B.Com (CBCS Pattern)**  
**Part-II (Semester-IV)**  
**Fundamentals of Entrepreneurship- Paper-II**  
**Generic Elective Course**  
**Introduced from June-2019-20**

Credits-4

## Objectives-

1. To acquaint students with family business in India
2. To impart conceptual knowledge of Service and Agro Entrepreneurship
3. To aware students about Business Plan and Project Report
4. To inspire the students through successful stories of Entrepreneurs

Unit-I	<b>Family Business:</b> Meaning, Types, Advantages and Disadvantages of Family Business, Challenges before family business in India, Business Succession Planning, Making family business more effective.	15 Hours
Unit-II	<b>Service and Agro Entrepreneurship:</b> A) Service Entrepreneurship- Meaning and Concept, Role of Service sector in National Economy, Opportunities in Service sector. B) Agro Entrepreneurship- Meaning and Concept, Importance, Entrepreneurial Opportunities in Agro Sector, Challenges before Agro Entrepreneurship	15 Hours
Unit-III	<b>Business Plan and Project Report:</b> Meaning and Concept of Business Plan, Key elements of business plan. Meaning, Concept and classification of project. Project for Retail store, Beauty parlor, Oil Mill, Cold Storage, Eco friendly Bag production- Reasons for failure of project.	15 Hours
Unit-IV	<b>Women Entrepreneurship and Successful Entrepreneurs</b> Women Entrepreneur- Concept and causes of limited growth of women entrepreneurs in India. Successful Entrepreneurs- Male- Jeff Bezos(Amazon), Hanmantrao Gaikwad (BVG), Chitale Brothers (Chitale Dairy), Ramdas Mane (Mane Group of Industries) Female- Aditi Gupta (Whisper Girl), Chetana Gala-Sinha (Manadesh Foundation), Vandana Luthra (VLCC),	15 Hours

**Note** – Industrial visit/ visit to EDP Institute is suggested to acquaint students about entrepreneurial knowledge.

A talk or interaction with entrepreneurial should be arranged.



**B.Com.II**  
**Semester III and IV (CBCS Pattern)**  
**Fundamentals of Entrepreneurship Paper I & II**  
**Nature of Question Paper**

**Instructions:****Total Marks: 50**

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Write short answers (Any two out of Three)	10 Marks
Q.2	Broad Question	10 Marks
Q.3	Broad Question	10 Marks
Q.4	Broad Question	10 Marks
Q.5	Broad Question	10 Marks
Q.6	Broad Question	10 Marks
Q.7	Write Short Notes (Any two out of Three)	10 Marks

**Equivalence**

Sr.No.	Old Name	New Name
1	Fundamentals of Entrepreneurship Paper - I	Fundamentals of Entrepreneurship Paper - I
2	Fundamentals of Entrepreneurship Paper - II	Fundamentals of Entrepreneurship Paper - II

**Reference Books:**

1. Dynamics of Entrepreneurial Development and Management- by Vasant Desai
2. Udyojakata- by Prabhakar Deshmukh
3. Entrepreneurship Development in India- by C.B. Gupta and N.P. Shrinivasan
4. Entrepreneurship and Small Business Management- by Shukla M.B.
5. Entrepreneurial Development- by Dr. S.S. Khanka
6. Entrepreneurial Development- by Godron E. and Natrajan K.
7. Entrepreneurial Development- by Taneja Satish and Gupta S.L.
8. Current Trends in Entrepreneurship - by Mohan S. Elangovan R.
9. Project Preparation Appraisal, Implementation- by Prasanna Chandra
10. Formulation of a Project Report- by Vinod Gupta

# Shivaji University, Kolhapur

## Syllabus of B.Com

(Semester-III & IV)

**Syllabus to be Introduced from June 2019**

### Money and Financial System

#### CHOICE-BASED CREDIT SYSTEM

**B.Com SEM III**

#### Money and Financial System (Paper No – 1)

<b>Course Outcomes:</b>		
<ol style="list-style-type: none"> <li>1. Learners will be able to explain functions of money and measurement of money supply</li> <li>2. Learners will understand the banking system and its functioning in India</li> <li>3. Learners will understand the nature of banking business and business practices</li> <li>4. Learners will understand the important recent trends in banking system</li> </ol>		
<b>Expected Skills Impartation (Through theory and Practical's)</b>		
<ol style="list-style-type: none"> <li>1. Ability to explain monetary system in India</li> <li>2. Ability to critical thinking on banking business</li> <li>3. Ability to explain recent trends in Indian Banking</li> </ol>		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
<b>Unit-1:</b>	<b>Introduction to Money</b> 1.1 Evolution, Meaning and Functions of Money 1.2 Meaning and Features of Blockchain Technology and Digital Currency 1.3 Approaches to the Money supply, RBI's Measures 1.4 Constituents and Factors affecting on Money Supply	13 Lectures
<b>Unit-2:</b>	<b>Introduction to Banking</b> 2.1. Meaning, Evolution and Functions of Commercial Banks 2.2. Types and features of banks - Commercial, Cooperative, Public and Private, Foreign, Payment Banks, Small Finance Banks, Local Area Banks etc 2.3. Principles of Banking Business and its importance 2.4. Process of Credit Creation and Its limitations	15 Lectures
<b>Unit-3:</b>	<b>Banking Business and Practices</b> 3.1. Meaning, Types and Features of Deposits Products of Banks 3.2. Meaning, Types and Features of Loan Products of Banks 3.3. Sources of Funds and Income for Banks 3.4. Changing Nature of Banking Business	17 Lectures
<b>Unit-4:</b>	<b>New Trends and Recent Issues in Indian Banking</b> 4.1 Micro Finance Institutions- Evolution, Functions and Importance 4.2 Types, Advantages and Disadvantages of Bank Mergers 4.3 Licensing and functioning of Payment Banks Small Finance Banks 4.4 Meaning, Causes and Remedies for NPA, Prompt Correctives Action	15 Lectures
<b>Note:</b> Bank visits and case studies on banking business should be conducted		
<b>Suggested Additional Readings:</b>		
<ol style="list-style-type: none"> <li>1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi</li> <li>2. Bhasin Nitin (2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi</li> <li>3. Berg Braam van den (2015), Understanding Financial Markets &amp; Instruments, Academy of Financial Market, <a href="https://eagletraders.com/books/afm/afm4.php">https://eagletraders.com/books/afm/afm4.php</a></li> <li>4. Cade, Eddie ( 1998 ) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England.</li> <li>5. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.</li> </ol>		

### EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	<b>Money and Financial System (Paper - I)</b>	<b>Money and Financial System (Paper - I)</b>

Nature of question paper for semester III and IV (Paper No. I & II)

Attempt any five questions.

Total marks 50

- |  |    |
|--|----|
| Q1. Write short answers (any two out of three) | 10 |
| Q2. Broad question                             | 10 |
| Q3. Broad question                             | 10 |
| Q4. Broad question                             | 10 |
| Q5. Broad question                             | 10 |
| Q6. Broad question                             | 10 |
| Q7. Write short notes (any two out of three)   | 10 |

**Shivaji University, Kolhapur**  
**Syllabus of B.Com**  
 (Semester-III & IV)

**Syllabus to be Introduced from June 2019**

**Money and Financial System**

**CHOICE-BASED CREDIT SYSTEM**

**B.Com SEM IV**

**Money and Financial System (Paper No – 2 )**

<b>Course Outcomes:</b>		
<ol style="list-style-type: none"> <li>1. Students will be able to use e-banking services</li> <li>2. Students will be able explain working of RBI in India</li> <li>3. Students will be able to provide consultancy and guidance for investment in financial markets</li> <li>4. Students will be able to explain the business practices of NBFCs and AIFI</li> </ol>		
<b>Expected Skills Impartation (Through theory and Practical's)</b>		
<ol style="list-style-type: none"> <li>1. Use of E-banking services</li> <li>2. Able to provide Financial consultancy</li> <li>3. Critical thinking about NBFCs and their effects</li> </ol>		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
<b>Unit-1:</b>	<b>E-Banking Services</b> 1.1 Meaning and features of E-Banking, Various Internet Banking Services 1.2 Credit and Debit Card : Features, importance & precautions 1.3 NEFT, RTGS, IMPS & Cheque Truncation System 1.4 Mobile Banking - Features, different Mobile Apps and Importance	17 Lectures
<b>Unit-2:</b>	<b>Reserve Bank of India</b> 2.1 Organizational Structure and Functions of RBI 2.2 Meaning and Objectives Monetary Policy 2.3 Instruments of Monetary Policy 2.4 Monetary Policy Committee; Issue of RBI's Autonomy & Section-7 of RBI Act 1934	12 Lectures
<b>Unit-3:</b>	<b>Financial Markets</b> 3.1 Structure and Importance of Financial System 3.2 Features and structure of Money Market in India, Role of RBI 3.3 Features and structure of Capital Market in India, Role of SEBI 3.4 Reforms in Indian Money Market and Capital Market	17 Lectures
<b>Unit-4:</b>	<b>All India Financial Institutes and NBFCs</b> 4.1 Administrative Structure, Functions and Role of NABARD and SIDBI 4.2 Administrative Structure, Functions and Role of NHB and EXIM Bank 4.3 Meaning, Features, Types and Growth of NBFCs 4.4 Mutual Fund - Meaning, Types and Importance	15 Lectures
<b>Note:</b> Visits to financial institutes and financial consultancy firms should be conducted		
<b>Suggested Additional Readings:</b>		
<ol style="list-style-type: none"> <li>1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi</li> <li>2. Bhasin Nitin(2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi</li> <li>3. Berg Braam van den (2015), Understanding Financial Markets &amp; Instruments, Academy of Financial Market, <a href="https://eagletraders.com/books/afm/afm4.php">https://eagletraders.com/books/afm/afm4.php</a></li> <li>4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England.</li> <li>5. Gupta, L.C (1997), Stock Exchange Trading in India; Society for Capital Market Research and Development</li> <li>6. Sethi Jyotsna and Bhatia Nishwan (2003), Elements of Banking and Insurance, Prentice Hall of</li> </ol>		

India, New Delhi

7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited
8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.

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**EQUIVALENCE OF THE PAPERS**

<b>Sr</b>	<b>Existing title of the Paper</b>	<b>Revised Title of the paper</b>
<b>1</b>	<b>Money and Financial System (Paper - II)</b>	<b>Money and Financial System (Paper - II)</b>

SHIVAJI UNIVERSITY, KOLHAPUR  
Syllabus B.COM.  
SEMESTER - III  
MACRO ECONOMICS – PAPER- I  
(CHOICE BASED CREDIT SYSTEM – (CBCS)  
Credits : 4  
Introduced from June 2019

**COURSE OUTCOMES:**

Student will be able to explain...

- 1 The macro variables and components of macro economics
- 2 The relevance of national income concepts and its applications in economic policy making.
- 3 Changing value of money and its impacts on economy.
- 4 The output and employment generation process through investment and consumption.

<b>UNIT -1</b>	<b>Introduction to Macro Economics</b> 1.1 Meaning, Nature and Scope 1.2 Significance of Macro Economics 1.3 Limitations of Macro Economics 1.4 Macro Economic Variables	15
<b>UNIT -2</b>	<b>National Income</b> 2.1 Meaning and concepts- GDP, GNP, NNP, Personal and Disposable income, Per capita Income, National income at current and constant prices. 2.2 Methods of computing National Income- Product, Income and Expenditure methods 2.3 Difficulties in computing National Income 2.4 Applications of National Income Data	15
<b>UNIT -3</b>	<b>Value of Money</b> 3.1 Concept of Value of Money 3.2 Quantity Theory of Money-, Transaction Approach, Cash Balance Approach 3.3 Inflation-Causes of Inflation, Inflation and interest rates, Social cost of Inflation, Remedies to control of inflation. 3.4 Index Number – Meaning, Construction of Simple and Weighted Index Numbers.	15
<b>UNIT -4</b>	<b>Output and Employment</b> 4.1 J.B. Say's Law of Market 4.2 Keynesian Theory of Employment 4.3 Consumption Function - Concept and Types, Factors influencing consumption function 4.4 Investment Function- Marginal Efficiency of Capital, Investment Multiplier	15



**References –**

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, Harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, George Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewett K.K., (2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, Tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4<sup>th</sup> Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015) Finance, Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance, Jayprakash Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

**Equivalence of the paper**

Title of Old Paper	Title of New Paper
Business Economics Paper III	Macro Economics Paper I

SHIVAJI UNIVERSITY, KOLHAPUR  
Syllabus  
B.COM.  
SEMESTER - IV  
MACRO ECONOMICS – PAPER- II  
(CHOICE BASED CREDIT SYSTEM – (CBCS)  
Credits : 4  
Introduced from June 2019

**COURSE OUTCOMES:**

Student will be able to explain...

1. The trade cyclical phenomenon in the economy and they will be able to take practical decisions at their business level in future.
2. Public finance system of state and its impact on economy and citizens of the nation.
3. The trade and business practices through international trade theories and other relevant concepts.
4. The international monetary exchange system and determination of rate exchange.

<b>UNIT -1</b>	<b>Trade Cycles</b> <b>1.1</b> Meaning Features and Types <b>1.2</b> Phases of Trade Cycles <b>1.3</b> Theories of Trade Cycles – Hawtrey and Schumpeter <b>1.4</b> Control of Trade Cycles	15
<b>UNIT -2</b>	<b>Public Finance</b> <b>2.1</b> Meaning, Nature and Scope, The Principle of Maximum Social Advantage <b>2.2</b> Public Revenue- Meaning, Tax Revenue-Direct and Indirect Taxes - Merits and Demerits, Concept of Goods and Service Tax (GST), Non-Tax Revenue Sources <b>2.3</b> Public Expenditure- Causes of growth and effects <b>2.4</b> Public Debt – Forms and Effects, Deficit Financing- Objectives and limitations.	15
<b>UNIT -3</b>	<b>International Trade</b> <b>3.1</b> Concept of Trade, Internal and International Trade <b>3.2</b> Advantage and Disadvantage of International Trade, Ricardian Theory of International Trade, Terms of Trade – Meaning, Types and its influencing factors. <b>3.3</b> Balance of Payments – Causes of disequilibrium, Measures to correct disequilibrium. <b>3.4</b> Concepts of Free Trade and Protective Trade	15
<b>UNIT 4</b>	<b>Rate of Exchange</b> <b>4.1</b> Concept of Rate of Exchange <b>4.2</b> Types – Fixed, Flexible , Spot and Future rate of exchange <b>4.3</b> Purchasing Power Parity Theory	15

	<b>4..4 Modern Theory of rate of exchange</b>	
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**References –**

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, Georg Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewtt K.K.,(2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4<sup>th</sup> Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015) Finance, Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance, Jaypraksh Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

**Equivalence of the papers**

Title of Old Paper	Title of New Paper
Business Economics Paper IV	Macro Economics Paper II

**Nature of Question Paper for paper III and IV****Total Marks: 50****Attempt any five questions out of seven**

- |  |    |
|--|----|
| Q.1 Write short answers (Any two out of three) | 10 |
| Q.2 Broad question                             | 10 |

Q.3 Broad question	10
Q.4 Broad question	10
Q.5 Broad question	10
Q.6 Broad question	10
Q.7 Write short notes (Any two out of three)	10

**B.COM. PART II**  
**ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)**  
**(CBCS)**

**ENGLISH FOR BUSINESS COMMUNICATION**  
**(Compulsory English)**  
**June 2019 Onwards**

**Course Objectives:**

- To enable the students to develop communication skills in English, both oral and written.
- To equip the students with the language skills for use in their personal, academic and professional lives.
- To develop the students essential employability skills.
- To help the students to enter the job market with confidence and the ability to work effectively.
- To help the students to learn and practice both language and soft skills.
- To encourage the active involvement of students in learning process.
- To enable the students to cultivate a broad, human and cultured outlook.

**CONTENTS**  
**Semester III (Paper C)**

**Module I**

- A) Oral Skills
- B) Phenomenal Woman – **Maya Angelou**

**Module II**

- A) Conversation Skills
- B) The Childless One – **Jai Nimbkar**
- C) Those Winter Sundays – **Robert Hayden**

**Module III**

- A) English for Competitive Examination – I
- B) Four Minutes that get you Hired  
–**Connie Brown Glaser and Barbara Steinberg Smalley**

**Module IV**

- A) Stormy Arrival in South Africa – **Mohandas Karamchand Gandhi**
- B) The Road Not Taken – **Robert Frost**

**Semester IV (Paper D)**

**Module V**

- A) E-Communication
- B) Breathing Spaces – **Rana Nayar**

**Module VI**

- A) English for Competitive Examination – II
- B) My Financial Career – **Stephen Leacock**

**Module VII**

- A) English for Banking and Industries
- B) Senior Payroll – **William E. Barrett**

**Module VIII**

- A) The Verger – **Somerset Maugham**
- B) I Am the People, the Mob – **Carl Sandburg**
- C) One Day I Wrote Her Name – **Edmund Spenser**

**Pattern of Question Paper**



**B.COM. PART II**  
**ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)**  
**(CBCS)**

**ENGLISH FOR BUSINESS COMMUNICATION**  
**(Compulsory English)**

**PATTERN OF QUESTION PAPER (June 2019 Onwards)**

**Semester III (Paper C)**

**Total Marks 50**

<b>Que. No.</b>	<b>Sub. Q.</b>	<b>Type of Question</b>	<b>Based on</b>	<b>Marks</b>
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on ORAL SKILLS	Module I A	05
	B.	Question to be set on ORAL SKILLS	Module I A	04
Q.4.	A.	Question to be set on CONVERSATION SKILL	Module II A	04
	B.	Question to be set on CONVERSATION SKILL	Module II A	04
Q.5	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	05
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	04

**Semester IV (Paper – D)****Total Marks 50**

<b>Que. No.</b>	<b>Sub. Q.</b>	<b>Type of Question</b>	<b>Based on</b>	<b>Marks</b>
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on E-COMMUNICATION	Module V A	05
	B.	Question to be set on E-COMMUNICATION	Module V A	04
Q.4.	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
Q.5.	A.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	05
	B.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	04

**Shivaji University, Kolhapur**  
**Syllabus of B. Com. (SEM – III)**  
**(To be introduced from June, 2019)**

**BUSINESS STATISTICS (PAPER-I)**

**Credits-4**

**Course Outcomes**

After completion of this course, the student will be able to

1. Explain the scope of statistics in business, perform classification and tabulation, and represent the data by means of simple diagrams and graphs.
2. Explain and apply sampling techniques in real life.
3. Summarize data by means of measures of central tendency and dispersion.
4. Explain the merits and demerits of various measures of central tendency and dispersion.
5. Perform analysis of bivariate data using simple correlation and simple linear regression.

**Unit 1: Introduction to Statistics**

**(15)**

- 1.1 Meaning of Statistics, Scope of Statistics in business.
- 1.2 Primary and secondary data, Discrete and continuous variables, Classification and its basis, Frequency and frequency distribution, Tabulation.
- 1.3 Diagrammatic representation: pie-chart, simple bar diagram, Graphical representation: histogram, ogive curves, Numerical problems.
- 1.4 Sampling: Definitions of population, sample, sampling, and census, Principle steps in sample survey, Advantages of sampling over census, Methods of sampling: simple random sampling (with and without replacement), stratified random sampling.

**Unit 2: Measures of Central Tendency**

**(15)**

- 2.1 Concept of central tendency, Requirements of a good average.
- 2.2 Arithmetic mean (A. M.): Definition, Properties of A. M. (without proof), Combined A. M., Merits and demerits, Numerical problems.
- 2.3 Median and quartiles: Definitions, Merits and demerits of median, Numerical problems.
- 2.4 Mode: Definition, Merits and demerits, Empirical relation among mean, median, and mode, Numerical problems.

**Unit 3: Measures of Dispersion**

**(15)**

- 3.1 Concept of dispersion, Requirements of a good measure of dispersion, Absolute and relative measures of dispersion.
- 3.2 Range, Coefficient of range, Merits and demerits of range, Numerical problems.
- 3.3 Quartile deviation (Q. D.), Coefficient of Q. D., Merits and demerits of Q. D., Numerical problems.
- 3.4 Standard deviation (S. D.), Coefficient of S. D., Coefficient of variation, Variance, Merits and demerits of S. D., Numerical problems.

**Unit-4: Analysis of Bivariate Data: Correlation and Regression****(15)**

- 4.1 Concept of correlation, Types of correlation.
- 4.2 Methods of studying correlation: Scatter plot, Karl Pearson's correlation coefficient ( $r$ ), Interpretation of  $r$  (with special cases  $r = -1, 0,$  and  $1$ ), Spearman's Rank correlation coefficient ( $R$ ), Numerical problems on computation of  $r$  and  $R$  (with and without ties) for ungrouped data.
- 4.3 Concept of regression.
- 4.4 Lines of regression, regression coefficients, relation between correlation coefficients and regression coefficient, Numerical problems on ungrouped data.

**Reference Books:**

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

**Shivaji University, Kolhapur**  
**Syllabus of B. Com. (SEM – IV)**  
**(To be introduced from June, 2019)**

**BUSINESS STATISTICS (PAPER-II)**

**Credits-4**

**Course Outcomes**

After completion of this course, the student will be able to

1. Compute unconditional and conditional probabilities and apply laws of probabilities.
2. Identify the applications of Binomial and normal distributions.
3. Measure trend and seasonal variations in time series data.
4. Compute and interpret simple and weighted index numbers.
5. Construct and apply variable and attribute control charts.

**Unit 1: Probability and Probability Distributions (15)**

- 1.1 Definitions of random experiment, sample space, event, equally likely events, mutually exclusive events, independent events, Classical definition of probability.
- 1.2 Definition of conditional probability, Addition and multiplication laws of probability (without proof), Numerical problems (without use of permutation and combination).
- 1.3 Binomial distribution: Probability mass function, Mean and variance (without proof), Simple numerical problems to find probability and parameters.
- 1.4 Normal distribution: Probability density function, Mean and variance (without proof), Properties of normal curve, Standard normal distribution, numerical problems to find probabilities for given area under standard normal curve.

**Unit 2: Time Series Analysis (15)**

- 2.1 Definition and uses of time series.
- 2.2 Components of time series.
- 2.3 Methods of measuring trend: method of semi-averages, method of moving averages, and method of least squares, Numerical problems.
- 2.4 Measurement of seasonal variations using simple average method, Numerical problems.

**Unit 3: Index Numbers (15)**

- 3.1 Need, meaning, and uses of index numbers, Applications of index numbers in share market, Price, quantity, and value index numbers.
- 3.2 Simple index numbers by simple aggregate method and simple average of relatives method (using A. M.), Numerical problems.
- 3.3 Weighted index numbers by Laspeyre's, Paasche's, and Fisher's formulae, Numerical problems.
- 3.4 Problems involved in construction of index numbers.

**Unit 4: Statistical Quality Control****(15)**

- 4.1 Concept of statistical quality control (SQC), Advantages of SQC, Types of variability: chance cause variability and assignable cause variability.
- 4.2 Shewhart control chart and its construction.
- 4.3 Variable control charts: mean ( $\bar{X}$ ) and range ( $R$ ) charts, Numerical problems.
- 4.4 Attributes control charts: control chart for number of defectives ( $np$ -chart) for fixed sample size and control chart for number of defects per unit ( $c$ -chart), Numerical problems.

**Reference Books:**

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

**Shivaji University, Kolhapur**  
**B.Com.(CBCS Pattern)**  
**Part – II (Semester –III) (Draft Syllabus)**  
**Tax Procedure & Practice – Paper VI**  
**Title of Paper – INCOME TAX**  
**Generic Elective Course**  
**Introduced From June 2019-20**

Credit-4

**Objectives-**

1. To understand the process and procedure of the Income Tax Act, 1961
2. To impart theoretical knowledge of Income Tax
3. To acquaint students with post Assessment procedure and TDS provisions and procedure.

<b>Unit – I</b>	Income Tax Payment and fine of interest – a) Advance Tax b) Interest payable under section 234 ABC	10 Hours
<b>Unit – II</b>	Assessment Procedure – Inquiring before Assessment – Assessment U/S 143(1), Regular Assessment of U/S 143(2), Best Judgement Assessment, Income escaped Assessment, issue of notice where income has escaped assessment, Time Limit for notice, Time limit completion of Assessment, Re-assessment	20 Hours
<b>Unit – III</b>	Post Assessment Procedure – a) Refund – who can claim refund, form no 16 for refund, Time limit for claiming refund, refund on appeal interest refund b) Rectification of mistake c) Appeals and revisions – when an assessee can file appeal appellate authorities, procedure for filling appeal, filling appeal, Revision by Income Tax commissioner d) Penalties and Procedure – Procedure for impressing penalties, Waiver of penalty nature of default and panlties impossible.	20 Hours
<b>Unit – IV</b>	TDS provisions and Procedure – including TDS Tax collection of source provision and procedures.	10 Hours

**Shivaji University, Kolhapur**  
**B.Com.(CBCS Pattern)**  
**Part – II (Semester –IV) (Draft Syllabus)**  
**Tax Procedure & Practice – Paper VIII**  
**Title of Paper – INCOME TAX**  
**Generic Elective Course**  
**Introduced From June 2019-20**

Credit-4

**Objectives-**

1. To impart theoretical knowledge of TDS, TCS, Penalties and prosecutions
2. To develop the skills of solving practical problems of TDS and TCS
3. To acquaint students with recent terms and conditions in Income Tax

<b>Unit – I</b>	<b>TDS</b> – Scheme of tax deduction at source, deduction of tax from salaries, interest other than interest on securities, winnings from horse races, from payments to contractors or sub contractors, from insurance commission, from commission or brokerage, from income by way of rent, on purchase of immovable property and on professional fees.	20 Hours
<b>Unit – II</b>	<b>TCS</b> – Scheme of tax collection at source, applicability, persons liable to collect TCS, rates of TCS and relevant provisions.	10Hours
<b>Unit – III</b>	<b>PENALTIES &amp; PROSECUTIONS</b> – Penalties for default in brief, penalty for concealment / under-reporting of Income, procedure for imposition of penalty and time-limit for completion of penalty proceedings.	20 Hours
<b>Unit – IV</b>	<b>PRACTICAL PROBLEMS ON TDS &amp; TCS</b> – Problems on calculation of TDS & TCS	10 Hours



**B.Com.II**  
**Semester III and IV (CBCS Pattern)**  
**Tax Procedure and Practice - Income Tax**  
**Nature of Question Paper**

Total Marks : 50

**Instructions :**

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

**Equivalence**

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice Income Tax Paper VI (Vocational)	Tax Procedure and Practice Income Tax Paper VI (CBCS)
2	Tax Procedure and Practice Income Tax Paper VIII (Vocational)	Tax Procedure and Practice Income Tax Paper VIII (CBCS)

**Reference Books :**

1. Students guide to Income Tax - Taxman
2. Direct Tax ready reckoner - Vinod Sighaniya
3. Income Tax - P.M. Herekar

**Shivaji University, Kolhapur**  
**B.Com.(CBCS Pattern)**  
**Part – II (Semester –III) (Draft Syllabus)**  
**Tax Procedure & Practice – Paper V**  
**Title of Paper – GST (SGST, IGST & CGST)**  
**Generic Elective Course**  
**Introduced From June 2019-20**

Credit-4

**Objectives-**

1. To impart theoretical knowledge of GST
2. To help students solve practical problems in GST
3. To acquaint students with the latest concepts and terms in GST.

<b>Unit – I</b>	Schedules under the Act(Schedule I.II and III under GST Act 2017) Levy & Collection of Tax (Scope of supply, Composite & mix supply, levy & collection)	10 Hours
<b>Unit – II</b>	Time & value of supply (Time of supply of goods, Time of supply of service, Value of Taxable supply schedules)	10 Hours
<b>Unit – III</b>	Determination of nature of Supply (Inter state Supply, Intra-state supply, Supplies in territorial water. Sec 7,8,9 of IGST Act) Sec. 10 & 11 of IGST Act Sec-10 Place of Supply of Goods other than supply of goods imported into, or exported from India. Sec. 11 – Place of Supply of Goods imported into or exported from India.	10 Hours
<b>Unit – IV</b>	Basic Problems – Problems to calculate SGST & CGST & Time & Value of supply.	30 Hours

**Shivaji University, Kolhapur**  
**B.Com.(CBCS Pattern)**  
**Part – II (Semester –IV) (Draft Syllabus)**  
**Tax Procedure & Practice – Paper VII**  
**Title of Paper – GST**  
**Generic Elective Course**  
**Introduced From June 2019-20**

Credit-4

**Objectives-**

1. To make aware the students regarding new amendments made in the Indirect taxation system of India i.e. GST
2. To give practice approach and implementation of GST provisions
3. To make aware about the key aspects under GST like place of supply of goods and services
4. To enhance the knowledge of students with the practical solutions and case studies under GST.

<b>Unit – I</b>	Composition levy (Conditions, applicability, Composition rate of tax etc. Reverse Charge Mechanism (RCM) – Applicability, Conditions	10 Hours
<b>Unit – II</b>	Input Tax Credit (Eligibility & conditions for taking Input Tax credit apportionment of credit & blocked credit)	20 Hours
<b>Unit – III</b>	<b>Sec 12</b> - Place of Supply of Goods or services or both. (Place of supply of services, where location of supplies & recipient in India. <b>Sec 13</b> - Place of Supply of services where location of supplier where location of supplier or location of recipient is outside India	20 Hours
<b>Unit – IV</b>	Basic Problems – Time of supply, value of supply, place of supply & ITC	10Hours

**B.Com.II**  
**Semester III and IV (CBCS Pattern)**  
**Tax Procedure and Practice - GST**  
**Nature of Question Paper**

Total Marks : 50

**Instructions :**

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

**Equivalence**

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice GST (SGST, IGST & CGST) Paper V(Vocational)	Tax Procedure and Practice GST Paper V (CBCS)
2	Tax Procedure and Practice GST Paper VII (Vocational)	Tax Procedure and Practice Income Tax Paper VII (CBCS)

**Reference Books :**

1. GST made simple - Taxman
2. A birds eye view - Jain and Jha
3. Basics of GST - Taxman
4. GST guide for students - CA Vivek Agarwal



Estd. 1962  
NAAC 'A' Grade

SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref../SU/BOS/Com & Mgmt./

Date : 04/07/2020

Outward No. : **WT 581**

To,

The Principal  
All Affiliated (Commerce & Management) College/Institutions,  
Shivaji University, Kolhapur

**Subject : Regarding syllabi and equivalence of B. Com. Part-III (Sem. V & VI)  
Choice Based Credit System (CBCS) degree programme under the  
Faculty of Commerce & Management.**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of B. Com. Part-III (Sem. V & VI) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2020-2021. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2020 & March / April, 2021. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2021-2022.

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

**Encl : As above**

**Copy to,**

I/c Dean, Faculty of Commerce & Management	Chairperson, BOS under Faculty of Commerce & Management
Director, BOEE	Dy.R Examination
Appointment Section	B. Com. Section
P. G. Admission Section	Computer Center/I.T.
Eligibility Section	Distance Education
P.G. Seminar Section	Affiliation Section (U.G./P.G.)

Ref../SU/BOS/Com & Mgt./

Date : 24/06/2020



Estd. 1962  
NAAC 'A' Grade

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PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

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शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग— २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

SU/BOS/Science/6254

Date: 21-06-2018

To,

The Principal,  
All Affiliated (Science) Colleges/Institutions,  
Shivaji University, Kolhapur.

**Subject:** Regarding syllabi of B. Sc. Part-I (CBCS) degree programme under the Faculty of Science and Technology

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, Nature of question paper and equivalence of B. Sc. Part-I (Sem. I & II) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

B.Sc.-I (Sem. I & II) (CBCS)			
1)	English (Com.)	2)	Chemistry
3)	Physics	4)	Zoology
5)	Botany	6)	Statistics
7)	Mathematics	8)	Microbiology
9)	Geography	10)	Geology
11)	Electronics	12)	Biotechnology (Optional/Vocational)
13)	Computer Science	14)	Biochemistry
15)	Food Science & Quality Control	16)	Astro Physics & Space Science
17)	Nanotechnology	18)	Industrial Microbiology

This syllabi and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Arts & Fine Arts	7	Appointment Section
2	Director, Board of Examinations and Evaluation	8	P.G.Seminar Section
3	The Chairman, Respective Board of Studies	9	Computer Centre
4	B.Sc. Exam	10	Affiliation Section (U.G.)
5	Eligibility Section	11	Affiliation Section (P.G.)
6	O.E. I Section	12	P.G.Admission Section





Estd. 1962  
NAAC 'A' Grade

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शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग— २६०९०९४)

फेक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Science/6138

Date: 18-06-2019

To,

The Principal,  
All Affiliated (Science) Colleges/Institutions,  
Shivaji University, Kolhapur.

**Subject:** Regarding syllabi of B. Sc. Part-II (CBCS) degree programme under the Faculty of Science and Technology

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of B.Sc. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2019 & March/April 2020. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Arts & Fine Arts	7	Appointment Section
2	Director, Board of Examinations and Evaluation	8	P.G.Seminar Section
3	The Chairman, Respective Board of Studies	9	Computer Centre
4	B.Sc. Exam	10	Affiliation Section (U.G.)
5	Eligibility Section	11	Affiliation Section (P.G.)
6	O.E. I Section	12	P.G.Admission Section



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फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Science/

Date: 12 5 JUN 2020

To,

The Principal,  
All Affiliated (Science) Colleges/Institutions,  
Shivaji University, Kolhapur.

1350

**Subject:** Regarding syllabi of B. Sc. Part-III (CBCS) degree programme under the Faculty of Science and Technology

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of B.Sc. Part-III (Sem. V & VI) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

This syllabi, equivalence and Nature of question paper shall be implemented from the academic year 2020-2021 onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2020 & March/April 2021. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Arts & Fine Arts	7	Appointment Section
2	Director, Board of Examinations and Evaluation	8	P.G.Seminar Section
3	The Chairman, Respective Board of Studies	9	Computer Centre
4	B.Sc. Exam	10	Affiliation Section (U.G.)
5	Eligibility Section	11	Affiliation Section (P.G.)
6	O.E. I Section	12	P.G.Admission Section





Estd. 1962  
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दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)

फक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Humanities/ 6777

Date: 05/07/2018

To,

The Principal, All Affiliated (M. A.) Colleges/Institutions, Shivaji University, Kolhapur	The Head , All Concerned Department, Shivaji University, Kolhapur
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**Subject:** Regarding syllabi of M. A. Part I (CBCS) programme under the Faculty of Humanities.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, Nature of question paper and equivalence of M. A. Part-I Choice Based Credit System (CBCS) under the Faculty of Humanities.

M.A.-I (Sem. I & II) (CBCS)			
1)	Marathi	2)	Hindi
3)	Economics	4)	Political Science

This syllabi and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

  
Dy Registrar

Copy to:

1	The Dean, Faculty of Humanities	7	Appointment Section
2	The Chairman, Respective Board of Studies	8	Centre for Distance Education
3	B.A. Exam	9	Computer Centre
4	Eligibility Section	10	Affiliation Section (U.G.)
5	O.E. I, II, III, IV Section	11	Affiliation Section (P.G.)
6	P.G.Seminar Section	12	P.G.Admission Section



Estd. 1962  
NAAC 'A' Grade

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FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग- २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Humanities/6778

Date: 05/07/2018

To,

The Principal, All Affiliated (M. A.) Colleges/Institutions, Shivaji University, Kolhapur	The Head, All Concerned Department, Shivaji University, Kolhapur
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**Subject:** Regarding syllabi of M. A. Part II (CBCS) programme under the Faculty of Humanities.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, Nature of question paper and equivalence of M. A. Part-II Choice Based Credit System (CBCS) under the Faculty of Humanities.

M.A.-II (Sem. III & IV) (CBCS)			
1)	Marathi	2)	Hindi
3)	English	4)	Political Science
5)	Economics	6)	Sociology
7)	History		

This syllabi and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Humanities	7	Appointment Section
2	The Chairman, Respective Board of Studies	8	Centre for Distance Education
3	B.A. Exam	9	Computer Centre
4	Eligibility Section	10	Affiliation Section (U.G.)
5	O.E. I, II, III, IV Section	11	Affiliation Section (P.G.)
6	P.G.Seminar Section	12	P.G.Admission Section





SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA

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दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग- २६०९०९४)

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Ref../SU/BOS/Com & Mgmt./ 6549

Date : 27/06/2019

To,

The Principal  
All Affiliated (Commerce & Management) College/Institutions,  
Shivaji University, Kolhapur

**Subject : Regarding syllabi and equivalence of M. Com. Part-I (Sem. I & II)  
Choice Based Credit System (CBCS) degree programme under the  
Faculty of Commerce & Management.**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of M. Com. Part-I (Sem. I & II) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2020-2021 (i.e. from June, 2020) onwards

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

**Encl : As above**

**Copy to,**

- |  |   |                                       |
|--|---|---------------------------------------|
| 1. I/c Dean, Faculty of Commerce & Management              | } | for information                       |
| 2. Chairman, BOS under Faculty of<br>Commerce & Management |   |                                       |
| 3. Director, BOEE  | } | for information and necessary action. |
| 4. Appointment Section                                     |   |                                       |
| 5. P. G. Admission Section                                 |   |                                       |
| 6. O.E.1 Section   |   |                                       |
| 7. Affiliation Section (U.G./P.G.)                         |   |                                       |
| 8. Computer Center/I.T.                                    |   |                                       |
| 9. Eligibility Section                                     |   |                                       |
| 10. Distance Education                                     |   |                                       |
| 11. P.G. Seminer Section                                   |   |                                       |

# SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

**Faculty of Commerce and Management**

**Syllabus For**

**M. Com. Part – I (Sem I & II)**

**(To be implemented from June 2019 onwards)**

(Subject to the modifications that will be made from time to time)



**Shivaji University, Kolhapur**  
**Revised Rules and Regulations of M.Com. Programme (CBCS)**  
**Under the Faculty of Commerce and Management**  
**To be implemented from Academic year 2019-20**

1. The semester system shall be implemented for: M.Com. Part-I Semester-I & Semester-II from Academic year 2019-20 and M.Com. Part-II Semester-III & Semester-IV from Academic year 2020-21.

2. Pattern of semester system – There shall be 80:20 pattern for the purpose of semester examinations.

3. Scheme of internal assessment - There shall be continuous internal assessment for M.Com. Programme. Internal Examination will be compulsory for all students. There will be separate passing head for internal examination of each paper.

The scheme for internal assessment will be as mentioned below: The Question paper in each semester (for each paper) shall be of 100 marks wherein 80:20 pattern will be accepted. For this purpose following will be the pattern for internal assessment scheme i) M.Com. Part – I and II There will be Practical for 10 marks and Seminar for 10 marks for each semester (The 80:20 pattern will be applicable to Distance education students. However, for internal work there will be Home assignment of 20 marks for each paper of all semesters).

The division of marks for Paper VI of each Special group will be as 60 marks for project work and 40 marks for Viva-voce. The evaluation of 100 marks will be done at the time of viva-voce. However, this division will not be applicable to the students on distance mode. The students on distance mode shall have to appear for a separate paper prescribed by the authorities.

4. The duration of semester examination for each paper of 80 marks shall be of three hours.

5. Equivalence of papers and chances for the students in pre-revised pattern (i.e. annual pattern) - Two additional chances shall be provided for the repeater students of the annual pattern. After this the concerned students will have to appear as per the equivalent paper given under revised pattern.

6. Standard of passing- The Standard of passing shall be 40% where the student will have to score 32 marks out of 80 and 8 Marks out of 20 in each paper. There will be a separate head of passing in Theory i.e. (university examination) and Internal Examination. N.B.:- A student will be allowed to keep term for M.Com. Part-II if he/she passes in all papers of Part I or fails in Part I in any of or all the heads of passing (Semester-I &Semester-II) taken together.

7. Result- The result of each semester shall be declared as Pass or Fail.

8. The choice based credit system (CBCS) is applicable to M.Com. Programme. However, it will not be applicable to the students on distance education students. Under the CBC system (Choice based credit system), the students should select the subject /paper from Discipline Specific Elective under the Faculty of Commerce and Management from M.Com., M. B. A., Law and M. C. A.

9. Revised Rules- These rules will be gradually implemented with effect from the academic year 2019-20 for M.Com. Programme. However, the existing (i.e. pre-revised) ordinance and rules shall remain in force for the students of pre-revised pattern during the transition period.

**For M. Com. Part-I Semester-I & II**

Semester-I		Semester-II	
Course Code	Course (Subject)	Course Code	Course (Subject)
CC-A1	Business Management	CC-A2	Organizational Behaviour
CC-B1	Managerial Economics	CC-B2	International Business
DSE-A-I	Advanced Accountancy Paper-I	DSE-A-III	Advanced Accountancy Paper-III
DSE-A-II	Advanced Accountancy Paper-II (Auditing)	DSE-A-IV	Advanced Accountancy Paper-IV (Research Methodology)
DSE-B-I	Advanced Costing Paper-I	DSE-B-III	Advanced Costing Paper-III
DSE-B-II	Advanced Costing Paper-II	DSE-B-IV	Advanced Costing Paper-IV (Research Methodology)
DSE-C-I	Taxation Paper-I (Income Tax)	DSE-C-III	Taxation Paper-III (Income Tax)
DSE-C-II	Taxation Paper-II (Income Tax)	DSE-C-IV	Taxation Paper-IV (Research Methodology)
DSE-D-I	Advanced Banking and Financial System Paper-I (Law and Practice of Banking in India)	DSE-D-III	Advanced Banking and Financial System Paper-III (Law and Practice of Banking in India)
DSE-D-II	Advanced Banking and Financial System Paper-II (Bank Management)	DSE-D-IV	Advanced Banking and Financial System Paper-IV (Research Methodology)
DSE-E-I	Business Administration Paper-I (Introduction to Business Administration)	DSE-E-III	Business Administration Paper-III (Functional Areas of Management: HR and Operations)
DSE-E-II	Business Administration Paper-II (Functional Areas of Management: Marketing and Finance)	DSE-E-IV	Business Administration Paper-IV (Research Methodology)
DSE-F-I	Insurance Paper-I (Fundamentals of Insurance)	DSE-F-III	Insurance Paper-III (Principles & Practice of Life Insurance)
DSE-F-II	Insurance Paper-II (Fundamentals of Insurance)	DSE-F-IV	Insurance Paper-IV (Research Methodology)
DSE-G-I	Advanced Statistics Paper-I (Mathematical Methods)	DSE-G-III	Advanced Statistics Paper-III (Design of Experiments)
DSE-G-II	Advanced Statistics Paper-II (Operations Research)	DSE-G-IV	Advanced Statistics Paper-IV (Research Methodology)
DSE-H-I	Cooperation and Rural Development Paper-I (Principles of Cooperation)	DSE-H-III	Cooperation and Rural Development Paper-III (Rural Management)
DSE-H-II	Cooperation and Rural Development Paper-II (Rural Economy of India)	DSE-H-IV	Cooperation and Rural Development Paper-IV (Research Methodology)
DSE-I-I	Marketing Management Paper-I (Principles of Marketing)	DSE-I-III	Marketing Management Paper-III (Sales and Distribution Management)
DSE-I-II	Marketing Management Paper-II (Consumer Behaviour)	DSE-I-IV	Marketing Management Paper-IV (Research Methodology)
DSE-J-I	Small Business and Entrepreneurship Paper-I	DSE-J-III	Small Business and Entrepreneurship Paper-III
DSE-J-II	Small Business and Entrepreneurship Paper-II	DSE-J-IV	Small Business and Entrepreneurship Paper-IV (Research Methodology)
DSE-K-I	Secretarial Practice Paper-I	DSE-K-III	Secretarial Practice Paper-III
DSE-K-II	Secretarial Practice Paper-II	DSE-K-IV	Secretarial Practice Paper-IV (Research Methodology)
DSE-L-I	Retail Management Paper-I	DSE-L-III	Retail Management Paper-III
DSE-L-II	Retail Management Paper-II	DSE-L-IV	Retail Management Paper-IV (Research Methodology)
DSE-M-I	International Business Paper-I	DSE-M-III	International Business Paper-III
DSE-M-II	International Business Paper-II	DSE-M-IV	International Business Paper-IV (Research Methodology)

DSE-N-I	E-Commerce Paper-I	DSE-N-III	E-Commerce Paper-III
DSE-N-II	E-Commerce Paper-II	DSE-N-IV	E-Commerce Paper-IV (Research Methodology)
DSE-O-I	Information Technology Paper-I	DSE-O-III	Information Technology Paper-III
DSE-O-II	Information Technology Paper-II	DSE-O-IV	Information Technology Paper-IV (Research Methodology)
DSE-P-I	Business Economics Paper-I	DSE-P-III	Business Economics Paper-III
DSE-P-II	Business Economics Paper-II	DSE-P-IV	Business Economics Paper-IV (Research Methodology)

**For M. Com. Part-II Semester-III& IV**

Semester-III		Semester-IV	
Course Code	Course (Subject)	Course Code	Course (Subject)
CC-C1	Management Accounting	CC-C2	Management Control System
CC-D1	Business Finance	CC-D2	Financial Management
DSE-A-V	Advanced Accountancy Paper-V (Costing)	DSE-A-VII	Advanced Accountancy Paper-VII (Taxation)
DSE-A-VI	Advanced Accountancy Paper-VI (Project Work)	DSE-A-VIII	Advanced Accountancy Paper-VIII (Contemporary Issues in Accounting)
DSE-B-V	Advanced Costing Paper-V	DSE-B-VII	Advanced Costing Paper-VII
DSE-B-VI	Advanced Costing Paper-VI (Project Work)	DSE-B-VIII	Advanced Costing Paper-VIII
DSE-C-V	Taxation Paper-V (Income Tax)	DSE-C-VII	Taxation Paper-VII (Goods and Service Tax)
DSE-C-VI	Taxation Paper-VI (Project Work)	DSE-C-VIII	Taxation Paper-VIII (Goods and Service Tax)
DSE-D-V	Advanced Banking and Financial System Paper-V (Law and Practice of Banking in India)	DSE-D-VII	Advanced Banking and Financial System Paper-VII (Law and Practice of Banking in India)
DSE-D-VI	Advanced Banking and Financial System Paper-VI (Project Work)	DSE-D-VIII	Advanced Banking and Financial System Paper-VIII
DSE-E-V	Business Administration Paper-V (Corporate Governance and Business Ethics)	DSE-E-VII	Business Administration Paper-VII (Functional Areas of Management: HR and Operations)
DSE-E-VI	Business Administration Paper-VI (Project Work)	DSE-E-VIII	Business Administration Paper-VIII (Strategic Management)
DSE-F-V	Insurance Paper-V (Fundamentals of Insurance)	DSE-F-VII	Insurance Paper-VII (Principles & Practice of Life Insurance)
DSE-F-VI	Insurance Paper-VI (Project Work)	DSE-F-VIII	Insurance Paper-VIII
DSE-G-V	Advanced Statistics Paper-V	DSE-G-VII	Advanced Statistics Paper-VII
DSE-G-VI	Advanced Statistics Paper-VI (Project Work)	DSE-G-VIII	Advanced Statistics Paper-VIII
DSE-H-V	Cooperation and Rural Development Paper-V	DSE-H-VII	Cooperation and Rural Development Paper-VII (Rural Management)
DSE-H-VI	Cooperation and Rural Development Paper-VI (Project Work)	DSE-H-VIII	Cooperation and Rural Development Paper-VIII
DSE-I-V	Marketing Management Paper-V (Advertising and Brand Management)	DSE-I-VII	Marketing Management Paper-VII (Rural Marketing)
DSE-I-VI	Marketing Management Paper-VI (Project Work)	DSE-I-VIII	Marketing Management Paper-VIII (Contemporary Issues in Marketing)
DSE-J-V	Small Business and Entrepreneurship Paper-V	DSE-J-VII	Small Business and Entrepreneurship Paper-VII



DSE-J-VI	Small Business and Entrepreneurship Paper-VI (Project Work)	DSE-J-VIII	Small Business and Entrepreneurship Paper-VIII
DSE-K-V	Secretarial Practice Paper-V	DSE-K-VII	Secretarial Practice Paper-VII
DSE-K-VI	Secretarial Practice Paper-VI (Project Work)	DSE-K-VIII	Secretarial Practice Paper-VIII
DSE-L-V	Retail Management Paper-V	DSE-L-VII	Retail Management Paper-VII
DSE-L-VI	Retail Management Paper-VI (Project Work)	DSE-L-VIII	Retail Management Paper-VIII
DSE-M-V	International Business Paper-V	DSE-M-VII	International Business Paper-VII
DSE-M-VI	International Business Paper-VI (Project Work)	DSE-M-VIII	International Business Paper-VIII
DSE-N-V	E-Commerce Paper-V	DSE-N-VII	E-Commerce Paper-VII
DSE-N-VI	E-Commerce Paper-VI (Project Work)	DSE-N-VIII	E-Commerce Paper-VIII
DSE-O-V	Information Technology Paper-V	DSE-O-VII	Information Technology Paper-VII
DSE-O-VI	Information Technology Paper-VI (Project Work)	DSE-O-VIII	Information Technology Paper-VIII
DSE-P-I	Business Economics Paper-V	DSE-P-III	Business Economics Paper-VII
DSE-P-II	Business Economics Paper-VI (Project Work)	DSE-P-IV	Business Economics Paper-VIII

**M. Com. Part-I and Part-II Structure implemented from June 2019**

STRUCTURE													
Semester-I													
Sr. No.	Course Type	Teaching Scheme						Examination Scheme					
		Theory			Practical			Theory			Internal Examination		
		No. of Lect.	Hours	Credit	No. of Pract.	Hours	Credit	Paper Hours	Max.	Min.	Internal	Max.	Min.
1	CC-A1	3	3	3	2	1	1	3	80	32	(Practical 10 + Seminar 10)	20	08
2	CC-B1	3	3	3	2	1	1	3	80	32		20	08
3	DSE-I	3	3	3	2	1	1	3	80	32		20	08
4	DSE-II	3	3	3	2	1	1	3	80	32		20	08
	Total	12	12	12	8	4	4	12	320			80	
Semester-II													
Sr. No.	Course Type	Teaching Scheme						Examination Scheme					
		Theory			Practical			Theory			Internal Examination		
		No. of Lect.	Hours	Credit	No. of Pract.	Hours	Credit	Paper Hours	Max.	Min.	Internal	Max.	Min.
1	CC-A2	3	3	3	2	1	1	3	80	32	(Practical 10 + Seminar 10)	20	08
2	CC-B2	3	3	3	2	1	1	3	80	32		20	08
3	DSE-III	3	3	3	2	1	1	3	80	32		20	08
4	DSE-IV	3	3	3	2	1	1	3	80	32		20	08
	Total	12	12	12	8	4	4	12	320			80	
Total of (Sem. I + II)		24	24	24	16	8	8	24	640			160	
Semester-III													
Sr. No.	Course Type	Teaching Scheme						Examination Scheme					
		Theory			Practical			Theory			Internal Examination		
		No. of Lect.	Hours	Credit	No. of Pract.	Hours	Credit	Paper Hours	Max.	Min.	Internal	Max.	Min.
1	CC-C1	3	3	3	2	1	1	3	80	32	(Practical 10 + Seminar 10)	20	08
2	CC-D1	3	3	3	2	1	1	3	80	32		20	08
3	DSE-V	3	3	3	2	1	1	3	80	32		20	08
4	DSE-VI	3	3	3	2	1	1	3	80	32		20	08
	Total	12	12	12	8	4	4	12	320			80	
Semester-IV													
Sr. No.	Course Type	Teaching Scheme						Examination Scheme					
		Theory			Practical			Theory			Internal Examination		
		No. of Lect.	Hours	Credit	No. of Pract.	Hours	Credit	Paper Hours	Max.	Min.	Internal	Max.	Min.
1	CC-C2	3	3	3	2	1	1	3	80	32	(Practical 10 + Seminar 10)	20	08
2	CC-D2	3	3	3	2	1	1	3	80	32		20	08
3	DSE-VII	3	3	3	2	1	1	3	80	32		20	08
4	DSE-VIII	3	3	3	2	1	1	3	80	32		20	08
	Total	12	12	12	8	4	4	12	320			80	
Total of (Sem. III + IV)		24	24	24	16	8	8	24	640			160	
Grand Total		48	48	48	32	16	16	48	1280			320	

Total= 48 + 16 = 64 Credits (Total = 1280 + 320 = 1600 Marks)

<b>M.Com. -I</b> <b>(Choice-Based Credit System)</b>  <b>PAPER-I : CC-A1 Business Management</b>  <b>(Compulsory Paper)</b>			
Course Outcomes	Understand the theoretical aspects of management and strategic management Describe the theoretical aspects of management and strategic management Understand the contemporary issues in management.		
Marks : 80	Total Hours of Teaching: 60	Theory: 60	Practical: Student Workload
Syllabus Contents:			
Unit 1: a) Theory	<b>Introduction to Management:</b> Definition, Nature, Significance, Managerial Skills, Mitzberg's Role, Management as a Profession, Code of Conduct for Managers. Functional areas of Management - Human Resource, Finance, Production and Marketing.		15 Hours
b) Practical	<i>Visit any organisation and study the role of managers. Visit and study the functional activities of the companies. Submit the hand written report to the College/ Institution/ Department</i>		
Unit 2: a) Theory	<b>Contribution towards Management Thought:</b> A) Contribution of Frank Gilbreth, Mary Parker Follett. Tom Peters and Robert Waterman. B) Organizational Learning Approach- Need and Evaluation. Virtual Organization - Features and Implications.		15 Hours
b) Practical	<i>Visit any organization and study the management thought of concern organization and submit the hand written report to the College/ Institution/ Department.</i>		
Unit 3: a) Theory	<b>Strategic Management:</b> (A) Concept, Importance, Levels of Strategy, Strategic Intent, Different type of Strategies, Strategic Analysis and Choice - Corporate Level Analysis (GAP analysis, BCG Matrix, GE9 Cell Matrix), Industry Level Analysis (Porter's 5 Forces Model). (B) Strategy implementation and control- Techniques of Strategy Evaluation - Functional Issues, Behavioural Issues and McKinsey's 7-S Model. Strategic Control Technique.		15 Hours
b) Practical	<i>Visit to company, bank, NGOs etc. and study the adopted strategies by the same. Develop strategies for the companies. Submit the best suggested strategies for the visited company to the College/ Institution/ Department.</i>		
Unit 4: a) Theory	<b>Contemporary Issues in Management:</b> (A) Ethical Issues- Social, Cultural, Financial, Marketing and Environment related Issues. (B) Management of 21 <sup>st</sup> Century Organization - Challenges and Opportunities in E-Commerce, E-Business and M-Commerce.		15 Hours
b) Practical	<i>Visit to company, social organizations etc. for collecting 21<sup>st</sup> Century issues in management and submit the hand written report about ethical issues and challenges before the organization to the College/ Institution/ Department.</i>		

Note:	Practical should be considered for Internal Examination for 5 (Five) Marks (Out of 10 Internal Marks)	
Reference Books: <i>In Search of Excellence</i> - Tom Peters and Robert H. Waterman, Strategic management – Azhar Kazmi Principles of management – P.C.Tripathi and P.N.Reddy Principles of Management – Koontz, O'Donnell and Weihrich		

<b>Paper – II : CC – A2 Organizational Behaviour</b>			
Organizational Behaviour. (Compulsory Paper)			
Marks : 80	Total Hours of Teaching: 60	Theory: 60	
Course Outcomes:	Describe theoretical concepts of organizational Behaviour. Classify types of personalities Summarize types of conflicts. Summarize adoption of organizational culture.		Number of hours lecture
Unit 1	Introduction to Organizational Behaviour: Concept, significance, Nature and scope of OB, contributing disciplines to OB, relationship between management and organizational Behaviour, Ethical issues in OB, Historical Development of OB, Models of OB.		15
Practical	Visit any nearby organization and observe management functions perform therein and report. Submit handwritten report.		
Unit 2	Individual and Group Behaviour:  A. Foundations of Individual Behaviour – Personality (Concepts, Determinants and types), Perception (meaning, process, factors affecting perception)., Attitude (Concept, formation and types), Values (Concept, types and formation) and Job Satisfaction (Concept, Determinants and Measurements), Learning (Meaning, determinants, principles)  B. Foundations of Group Behaviour: Definition and importance of group, Types of group, Process of group development, Group Behaviour (Norms, Cohision, Role intergroup Conflicts), Group performance factors, Quality Circle and Work Teams.		15
Practical 2	Classify the types of personality of sample employees in nearby organization.		

Unit 3	<p>Organisational Conflict and Negotiation</p> <p>A. Organizational Conflict: Concept, types, sources and levels of organizational conflict, Traditional and modern approach to conflict, Functional and dysfunctional organizational conflict, conflict process, resolution of conflict.</p> <p>B. Negotiation: bargaining strategies, the negotiation process, individual differences in negotiation effectiveness, third party negotiations.</p>	15
Practical 3	Prepare a poster on organizational conflicts and their resolution.	
Unit 4	<p>Organizational Culture and Work Life Balance:</p> <p>A. Organizational culture: Definition, types, functions, creating, sustaining and changing culture a culture.</p> <p>B. Quality of Work life: concept, constituents of QWL, QWL in Indian context. Managing work life conflicts in organizations.</p>	15
Practical 4	Prepare a report on organizational culture adopted in hereby organization.	
<p>References:</p> <ol style="list-style-type: none"> <li>1. Management and Organizational Behaviour – P. Subbarao</li> <li>2. Organizational Behaviour – Keith davis</li> <li>3. Organizational Behaviour – Stephen Ronnins</li> <li>4. Organizational Behaviour – Dr. Anjali Ghanekar</li> <li>5. Organizational Behaviour – Dr. C.B.Gupta</li> <li>6. Organizational Behaviour – Dr. S.S.Khanka</li> <li>7. Organizational Behaviour – Stephen Robbins &amp; Timothy Judge, 15<sup>th</sup> Edition, Pearson, Prentice Hall.</li> </ol>		

**Paper I : CC- B1 MANAGERAL ECONOMICS**

(Compulsory Paper)

(CHOICE BASED CREDIT SYSTEM – (CBCS))

Credits : 4

**COURSE OUTCOMES:**

- 1 Student should able to understand the variables and components of Managerial Economics
- 2 Students should study the applications of demand analysis and concepts related consumer's behaviors.
- 3 Student should aware regarding production, price determination and pricing practices and they should able to apply these in business decision making policies.
- 4 Student should understand the business cycle phenomenon and inflation for business decision making.

<b>UNIT -1</b>	<p><b>Introduction to Managerial Economics</b></p> <p>1.1 Meaning, Nature, Scope and Importance</p> <p>1.2 Economic Theory and Managerial Theory</p> <p>1.3 Role and Responsibilities of manager- managerial Economics and Decisions making</p> <p>1.4 Objectives of Business Firm</p>	15
<b>UNIT -2</b>	<p><b>Demand Analysis and Consumer Behavior</b></p> <p>2.1 Demand Function Concept and Types of Elasticity of Demand</p> <p>2.2 Measurement of Price Elasticity of Demand- Applications of Elasticity of Demand in Managerial decision</p> <p>2.3 Revealed Preference Theory – Theory of Consumer's Choice under Risks</p> <p>2.4 Demand Forecasting : Meaning and Methods</p>	15
<b>UNIT -3</b>	<p><b>Theory of Production, Price Determination and Pricing Practices</b></p> <p>3.1 Production Function : Short run, Long run and Cob-Douglas – Break Even Analysis</p> <p>3.2 Price and Output Determination under Monopolistic Competition and</p>	15

	<p>Oligopoly ( Collusive and Non-Collusive)</p> <p><b>3.3 Pricing Practices: Cost Plus, Multiple, Dumping and Transfer</b></p> <p><b>3.4 Capital Budgeting- Criteria for Project Appraisal</b></p>	
<b>UNIT -4</b>	<p><b>Theory of Business Cycles and Inflation</b></p> <p><b>4.1</b> Meaning, Phases of Business Cycles</p> <p><b>4.2</b> Theories of Business Cycles: Cob-Web, Hicks</p> <p><b>4.3</b> Monetary theories of Inflation : Friedman theory, Income theory</p> <p><b>4.4</b> Structurlist theories :Mark up theory by Ackley- Bottleneck theory by Eckstim</p>	15
<p><b>References –</b></p> <ol style="list-style-type: none"> <li>1. Branson, William H. Macroeconomic Theory and Policy. HarperCollins India Pvt. Ltd.</li> <li>2 Oliver J. Blanchard, Macroeconomics, Pearson Education</li> <li>3 G. S. Gupta, Macroeconomics: Theory and Applications, McGraw-Hill Education</li> <li>4 Shapiro, Macroeconomic Analysis</li> <li>5 Paul A Samuelson, William D Nordhaus, and Sudip Chaudhuri, Macroeconomic, McGraw-Hill Education</li> <li>6 Mithani D.M. Money, Banking, International Trade and Public Finance,</li> <li>7 Vaish M.C. Monetary Theory</li> <li>8 Agarwal H.S. Principles of Economics</li> <li>9 Haberler, Theory of International trade</li> <li>10 K.K.Dewett, Monetary Theory</li> <li>11 H.L.Ahuja,Macro Economics: Theory and Policy</li> <li>12 Jhingan M.L. Macro Economic Theory</li> <li>12 Gupta S.B. Monetary Economics</li> </ol>		

### Equivalence of the paper

Existing Title of the Paper	Revised Title of the Paper
Managerial Economics Paper I	Managerial Economics Paper I

Distribution of Marks: 100 Marks

Internal Work: 20 Marks

Theory Paper: 80 Marks

Nature of Question Paper for paper I and II

Total Marks: 80      Duration: 3 Three clock hours

**Instructions:** 1) Que.1 and 2 are compulsory

2) Attempt any three questions from Que. no 3 to 6

Q.1 Case Study	16
Q.2 Short answer type question (Any two out of three)	16
Q.3 Long question	16
Q.4 Long question	16
Q.5 Long question	16
Q. 6 Write Short Notes (Any two out of three)	16



**Paper II : CC- B2 : INTERNATIONAL BUSINESS**

(Compulsory Paper)

(CHOICE BASED CREDIT SYSTEM – (CBCS))

**Credits : 4**

**COURSE OUTCOMES:**

1. Students will understand the global economic and business world.
2. Students will equip with proper knowledge, abilities and skills of international business environment.
3. Students will get acquainted with the functions and mechanism of international financial institutions.
4. Students will enable with the knowledge of the plans and strategies to succeed at international business platform.

<b>UNIT -1</b>	<p><b>International Business Environment</b></p> <p><b>1.1.</b> Nature and Scope</p> <p><b>1.2</b> Issues in foreign investment-technology transfer, pricing and regulations,</p> <p><b>1.3</b> Human resource issues and Environmental issues</p> <p><b>1.4</b> Emerging economies and trade blocks</p>	15
<b>UNIT -2</b>	<p><b>International Marketing</b></p> <p>2.1 International Marketing – meaning, features, need and problems</p> <p>2.2 Entry strategies, market selection</p> <p><b>2.3</b> International production and supply chains</p> <p>2.4 Methods of Payments in international trade</p>	15
<b>UNIT -3</b>	<p><b>International Business Regulations</b></p> <p><b>3.1</b> Bilateral and multilateral trade laws</p>	15

	<p><b>3.2</b> WTO- Settlement and Dhoha round of talks</p> <p><b>3.3</b> Dispute settlement mechanism under WTO</p> <p>3.4 Problems of Patent laws</p>	
<b>UNIT 4</b>	<p><b>International Economy and India</b></p> <p>4.1 India's foreign trade in post globalization era</p> <p>4.2 India and IMF, IBRD</p> <p>4.3 Role of India in SAARC</p> <p>4.4 BRICS and India</p>	15
<p><b>References –</b></p> <ol style="list-style-type: none"> <li>1. Mead R. (2004) International Management: Cross Cultural Dimensions, 3<sup>rd</sup> ed. New York Wiley</li> <li>2. Vyuptakesh Sharan, (2004) International Business: Concept, Environment and Strategy, Pearson education, Singapore</li> <li>3. Yarbrough B V (2005) The World Economy: Trade and Finance, 7<sup>th</sup> Ed Thomas south western USA</li> <li>4. Manab Adhikari, Global (2006) Business Management( An International economic environment), Macmillan India Ltd</li> <li>5. Hill C.W. L. and jain A. K.(2007) International Business Competing in Global market Place, McGraw Hill New Delhi</li> <li>6. Graham John L, Salwan Prashant, Cateora Philip R, (2008) International Marketing 13<sup>th</sup> Ed. Tata McGraw- Hill,</li> <li>7. Varshney R.L. and Bhattacharya B, (2012) International Marketing Management -An Indian Perspective, 24<sup>th</sup> Ed S.Chand New Delhi</li> <li>8. Jeevnandam C. International Business S.Chand New Delhi 2008</li> <li>9. Paul Justein International Business, 5<sup>th</sup> Ed (2011) Prentice Hall of India, Pvt Ltd new Delhi</li> <li>10. Keegan Warren J. and Green Mark C. Global Marketing, 4<sup>th</sup> Ed.(2009) Prentice Hall India, Pvt Ltd</li> <li>11. Bhalla V. K. and Ramu S.S.(2009) International Business Environment, Anmol Prakashan New Delhi</li> </ol>		

### Equivalence of the papers

Existing Title of the Paper	Revised Title of the Paper
Managerial Economics Paper II	Business Environment Paper II

Distribution of Marks: 100 Marks

Internal Work: 20 Marks

Theory Paper: 80 Marks

Nature of Question Paper for paper I and II

Total Marks: 80      Duration: 3 Three clock hours

**Instructions:** 1) Que.1 and 2 are compulsory

2) Attempt any three questions from Que. no 3 to 6

Q.1 Case Study	16
Q.2 Short answer type question (Any two out of three)	16
Q.3 Long question	16
Q.4 Long question	16
Q.5 Long question	16
Q. 6 Write Short Notes (Any two out of three)	16

<b>Paper-I : DSE-A-1 : Advanced Accountancy</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Understanding concept of accounting standards and practical implication of AS-1 and AS-2</li> <li>2. Familiarity with preparing final accounts of service industries.</li> <li>3. Perfection in preparing the consolidated financial statements of holding company and its subsidiaries.</li> <li>4. Understanding of preparation of financial statements of insurance companies with schedules.</li> </ol>	
Expected Skills Impartation(Through theory and Practical)	<ol style="list-style-type: none"> <li>1. Identifying accounting policies and making valuation of inventories.</li> <li>2. Preparation of accounts of hotels and hospitals.</li> <li>3. Preparation of consolidated financial statements of group of companies.</li> <li>4. Application of accounting process for insurance companies.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	Introduction to Accounting Standard- (a) Meaning, Objectives and Need of Accounting Standard, Introduction to IFRSs, Distinction between GAAPs and IFRSs, (b) Disclosure of Accounting Policies (AS-1) and Valuation of Inventories (AS-2)	15 Hours
b) Practical	(1) Visit Chartered Accountant's Office and discuss the ideas of accounting standards, IFRSs and GAAPs (2) Arrange students group discussion or seminar on AS-1 and AS-2	
Unit 2: a) Theory	Accounting for Service Industries: (a) Accounting of Hotel: Nature of Hotel business, Sources of Revenue and Heads of Expenditures of Hotel, Visitors' ledgers and Preparation of Final Accounts (b) Accounting of Hospitals: Introduction, Introduction, Incomes and Expenditure, Capital and Revenue, OPD and IPD register	15 Hours
b) Practical	(1) Visit to any Hotel and arrange discussion with hotel's manager regarding hotel's accounting process (2) Visit to any Hospital and arrange discussion with hospital manager regarding hospital's accounting process	
Unit 3: a) Theory	Accounting for Holding Company: Group Accounts up to two subsidiaries-AS-21	15 Hours

b) Practical	(1) Collect consolidated financial statements from the website of any group of companies and arrange group discussion on it.  (2) If possible, visit the holding company of any group and try to understand consolidation process of financial statements.	
Unit 4: a) Theory	Accounting of Insurance Companies: General and Life Insurance, Introduction, Accounting forms, Financial Statements with schedules, IRDA Regulations related to financial statements of insurance companies.	15 Hours
b) Practical	(1) Download financial statements of insurance company and discuss on them in the classroom.  (2) Arrange visit to insurance company branch office to know their accounting process	
Note:	Questions on theory as well as problems should be asked in university examinations on each unit.	
Reference Books:		
<ol style="list-style-type: none"> <li>1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, S. Chand &amp; Company, New Delhi.</li> <li>2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, S. Chand &amp; Company, New Delhi.</li> <li>3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Himalaya Publishing House, Mumbai.</li> <li>4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, Sultan Chand and Sons; New Delhi.</li> <li>5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. Vikas Publication House, New Delhi.</li> <li>6) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts; S.Chand and Co. New Delhi.</li> <li>7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Kalyani Publishers, New Delhi.</li> <li>8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, McGraw Hill Education India (Private) Ltd., Noida.</li> </ol>		
Suggested Additional Readings: (if web source then provide url)		
<ol style="list-style-type: none"> <li>1) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press</li> <li>2) Original documents of Accounting Standards issued by ICAI</li> <li>3) Companies Act 2013</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Accounting</li> <li>2) Indian Journal of Commerce</li> <li>3) The Chartered Accountant</li> <li>4) Management Accountant</li> </ol>		

Shivaji University, Kolhapur

Nature of Question Paper for

M.Com. (CBCS)

Marks: 80 Duration: 3 hours.

Instructions:

1. Question number 1, 2 and 3 are compulsory
2. Attempt any two questions from question number 4 to 6.

Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Case Study/Problem	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question/practical problem	(16)
Q.5 Long answer question/practical problem	(16)
Q. 6. a. Short answer question/ problem	(8)
b. Short answer question/ Problem	(8)

**Paper II : DSE – A-II : Advanced Accountancy  
(Auditing)**

Course Outcomes:

After Studying this course, students shall be able:

1. To understand the basic concepts and objectives of audit
2. To gain working knowledge of generally accepted auditing procedures
3. To identify the skills and techniques of conducting audit of various entities
4. To know the recent trends in practice of audit

Unit	Contents:	No. of Hours
I	<p><b>Basic Concepts of Audit :</b> Meaning of Audit, Scope of Audit, True and Fair View, Basic Principles Governing an Audit (AAS 1), Independence of Auditor, Difference between Audit and Investigation</p> <p><b>Practical:</b> Group discussion on ‘True and Fair View’ and ‘Independence of Auditor’</p>	15
II	<p><b>Dividend and Divisible Profit:</b> Concept of Dividend, Methods of Payment of Dividend, Financial, Legal and Policy Considerations in Dividend Decision</p> <p><b>Practical :</b> Review dividend policy of any company on the basis of its annual report</p>	15
III	<p><b>Types of Audit and Audit of Various Entities</b> Cost Audit, Tax Audit, Management Audit, Social Audit Audit of Insurance Companies, Audit of Educational Institutions, Audit of Companies as per Companies Act, 2013 Adverse Opinion and Disclaimer of Opinion Audit of Computerised Accounting</p> <p><b>Practical :</b> Visit any company or educational institute and understand the process of conducting an audit.</p>	15
IV	<p><b>Auditing and Assurance Standards</b> AAS 2 : Objectives and Scope of Audit of Financial Statements AAS 3 : Documentation AAS 5 : Audit Evidence AAS 6 (Revised) : Risk Assessment and Internal Control AAS 8 : Audit Planning AAS 13 : Audit Materiality AAS 15 : Audit Sampling AAS 28 : Auditor’s Report on Financial Statements</p> <p><b>Practical :</b> Write an assignment on any one of the AAS with reference to its importance in audit.</p>	15

<p>Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours.</p> <p>Instructions:</p> <p>3. Question number 1, 2 and 3 are compulsory</p> <p>4. Attempt any two questions from question number 4 to 6.</p> <p>Q. 1 a. Choose the appropriate alternative (10) b. True or false (6)</p> <p>Q.2 Case Study/Problem (16)</p> <p>Q.3 Short Notes (any 4 out of 6) (16)</p> <p>Q.4 Long answer question/practical problem (16)</p> <p>Q.5 Long answer question/practical problem (16)</p> <p>Q. 6. a. Short answer question/ problem (8) b. Short answer question/ Problem (8)</p> <p>*****</p>	
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Reference Books :

1. A Handbook of Practical Auditing :Dr. B.N. Tandon, Dr.Sudharsanam, Dr.Sundarbhou, S.Chand Publications
2. Auditing and Assurance : Sanjib Kumar Basu, Pearson Publishing House
3. Advanced Auditing and Professional Ethics : CA Vinodkumar Agarwal, CA Aarati Lahoti, A.S. Foundation
4. Auditing and Assurance Services : Karen Hooks, Wiley Publishers
5. Auditing and Assurance : CA Surabhi Bansal, Bestword Publications
6. Audit and Assurance Standards in India : M P Vijaykumar, Snow White Publication
7. Fundamentals of Auditing : Kumar and Sharma, Prentice Hall (India) Publihsers
8. Study Material of CA (IPCC and Final) :The Institute of Chartered Accountants of India

Journals

1. The Chartered Accountant, The Institute of Chartered Accountants of India
2. Journal of Accounting, Auditing and Finance, Sage Publications
3. International Journal of Auditing, Wiley Publishers



<b>Paper-III : DSE-A-III : Advanced Accountancy</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with accounting of business combinations of companies.</li> <li>2. Perfection in accounting of different types of cooperatives.</li> <li>3. Understanding the accounting for lease.</li> <li>4. Understand the concepts of social responsibility accounting, environment accounting and human resource accounting.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Recording transactions regarding amalgamation, absorption and reconstruction.</li> <li>2. Preparing financial statements of cooperatives in accordance with Maharashtra Cooperative Societies Act.</li> <li>3. Recording transactions related to operating and finance lease.</li> <li>4. Demonstrating concepts of social responsibility accounting, environment accounting and human resources accounting and performing accounting of fixed assets and investments according to AS-10 and AS-13.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	Accounting for Amalgamation, Absorption (AS-14) and Reconstruction of companies.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(1) Arrange group discussion on reasons of amalgamation and absorption; and Analyze any case study of amalgamation or absorption.</li> <li>(2) Arrange group discussion on reconstruction and Analyze case study of external and internal reconstruction of a company.</li> </ol>	
Unit 2: a) Theory	Accounting of Cooperative Societies- Consumer, Credit and Dairy units as per Maharashtra Cooperative Societies Act.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(1) Visit any cooperative society to see their accounting process and discuss with respective authority who look after accounting in the concern cooperative.</li> <li>(2) Take interview of Cooperative auditor or Chartered Accountant in respect of cooperative accounting.</li> </ol>	
Unit 3: a) Theory	Accounting for Lease (AS-19): Introduction, Types of Lease, Accounting for Operating Lease and Finance Lease	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(1) Arrange students' seminar, quiz or group discussion on the difference between operating lease and finance lease.</li> <li>(2) Arrange guest lecture of or workshop by inviting chartered accountant or cost accountant or expert in lease business.</li> </ol>	

Unit 4: a) Theory	(a) Social Responsibility Accounting, Environment Accounting and Human Resource Accounting- Meaning, Objectives and Need  (b) Accounting of Fixed Assets (AS-10) and Accounting of Investments (AS-13).	15 Hours
b) Practical	(1) Arrange seminar/group discussion/panel discussion on the concepts of Social Responsibility Accounting, Environment Accounting and Human Resource Accounting.  (2) Download annual report of any listed company and analyze the financial statement to understand their compliance with AS-10 and AS-13.	
Note:	Questions on theory as well as problems should be asked in university examinations on each unit.	
Reference Books:		
<ol style="list-style-type: none"> <li>1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, S. Chand &amp; Company, New Delhi.</li> <li>2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, S. Chand &amp; Company, New Delhi.</li> <li>3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Himalaya Publishing House, Mumbai.</li> <li>4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, Sultan Chand and Sons; New Delhi.</li> <li>5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. Vikas Publication House, New Delhi.</li> <li>6) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts; S.Chand and Co. New Delhi.</li> <li>7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Kalyani Publishers, New Delhi.</li> <li>8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, McGraw Hill Education India (Private) Ltd., Noida.</li> </ol>		
Suggested Additional Readings: (if web source then provide url)		
<ol style="list-style-type: none"> <li>1) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press</li> <li>2) Original documents of Accounting Standards issued by ICAI</li> <li>3) Companies Act 2013</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Accounting</li> <li>2) Indian Journal of Commerce</li> <li>3) The Chartered Accountant</li> <li>4) Management Accountant</li> </ol>		

Shivaji University, Kolhapur

Nature of Question Paper for

M.Com. (CBCS)

Marks: 80 Duration: 3 hours.

Instructions:

5. Question number 1, 2 and 3 are compulsory
6. Attempt any two questions from question number 4 to 6.

Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Case Study/Problem	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question/practical problem	(16)
Q.5 Long answer question/practical problem	(16)
Q. 6. a. Short answer question/ problem	(8)
b. Short answer question/ Problem	(8)

<b>Paper-IV : DSE-A-IV : Advanced Accountancy</b> <b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
Syllabus Contents:		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> </ol>	

	(b) Preparation of interview schedule/observation schedule (c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.) (d) Classification of data and tabulation.	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test.  (c) Report writing according to objectives and hypothesis.  [Use any suitable software for the purpose of (a) and (b)]	
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books:		
<ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
Suggested Additional Readings:		
<ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>		

Shivaji University, Kolhapur

Nature of Question Paper for

M.Com. (CBCS)

Marks: 80 Duration: 3 hours.

Instructions:

7. Question number 1, 2 and 3 are compulsory
8. Attempt any two questions from question number 4 to 6.

Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Case Study/Problem	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question/practical problem	(16)
Q.5 Long answer question/practical problem	(16)
Q. 6. a. Short answer question/ problem	(8)
b. Short answer question/ Problem	(8)

**Paper I : DSE-B-I : Advanced Costing  
(Introduction to Cost Accounting)**

**Course Outcomes:**

After studying this course, students shall be able:

1. To understand the basic concepts of cost accounting
2. To classify the costs and apply the same for cost determination
3. To apply the cost accounting principles in cost accounting of materials
4. To know the application of cost accounting in calculation of labour cost and overheads

Unit	Contents :	No. of Hours
I	<p><b>Introduction to Cost Accounting :</b> Concepts of Cost, Value, Price, Sale, Profit, Cost Accounting, Costing, Cost Accountancy Objectives of Cost Accounting, Difference between Financial and Cost Accounting</p> <p><b>Practical:</b> Group discussion on various concepts related to cost and cost accounting</p>	15
II	<p><b>Cost Classification and Preparation of Cost Sheet</b> Classification of Cost on various bases, Preparation of Cost Sheet and Quotation</p> <p><b>Practical :</b> Visit any manufacturing unit and prepare cost sheet</p>	15
III	<p><b>Cost Accounting of Material</b> Methods of Pricing of Issue of Material (FIFO, LIFO, Simple Average, Weighted Average), Determination of various stock levels and EOQ</p> <p><b>Practical :</b> Write an assignment on stock levels and its impact on management of inventory.</p>	15
IV	<p><b>Cost Accounting of Labour and Overheads</b> Methods of Remuneration, Piece Rate and Time Rate System, Taylor's Differential Piece Rate System, Halsey Premium Plan, Rowan Plan, Merrick's Multiple Piece Rate System Overheads : Allocation, Apportionment, Reapportionment, Absorption Rate</p> <p><b>Practical :</b> Visit any organisation and understand its method of remuneration</p>	15
	<p style="text-align: center;">Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours. Instructions: 9. Question number 1, 2 and 3 are compulsory 10. Attempt any two questions from question number 4 to 6.</p> <p>Q. 1 a. Choose the appropriate alternative (10) b. True or false (6) Q.2 Case Study/Problem (16) Q.3 Short Notes (any 4 out of 6) (16) Q.4 Long answer question/practical problem (16) Q.5 Long answer question/practical problem (16) Q. 6. a. Short answer question/ problem (8) b. Short answer question/ Problem (8)</p> <p style="text-align: center;">*****</p>	

**Paper II : DSE-B-II : Advanced Costing  
(Methods of Cost Accounting)**

**Course Outcomes:**

After studying this course, the students shall be able:

1. To identify the methods of cost accounting and its practical application
2. To understand the different methods of cost accounting applied in various entities
3. To demonstrate the determination of cost in various types of organisations
4. To apply cost accounting methods for determining selling price or identifying loss/profit

nit	Contents :	No. of Hours
I	<p><b>Job and Batch Costing :</b> Features and Objectives of Job Costing, Preparation of Job Cost Sheet Features and procedure of Batch Costing, Economic Batch Quantity <b>Practical:</b> Visit any manufacturing concern and prepare job/batch cost sheet</p>	15
II	<p><b>Contract Costing :</b> Feature and procedure of Contract Costing, Architect's Certificate, Work in Progress, Retention Money, Profit on Incomplete Contract, Notional Profit, Escalation and De-escalation Clause, Preparation of Contract Accounts <b>Practical :</b> Visit any Construction site/office and prepare contract account for one year.</p>	15
III	<p><b>Process Costing :</b> Characteristics of Process Costing, Normal Loss, Abnormal Loss and Abnormal Gain and their accounting treatment, Equivalent Production, Evaluation of Equivalent Production, Preparation of Process Accounts (With and without opening as well as closing Work in Process), Process Accounts (with Inter-process Profit) Joint Products and By Products : Joint cost and subsequent costs, Decision regarding further processing, Limitations of joint cost analysis  <b>Practical :</b> Visit any manufacturing unit where process costing is applicable and prepare process accounts</p>	15
IV	<p><b>Operating Costing (Service Costing)</b> Characteristics of Operating Costing, Cost Unit, Transport Costing, Log Sheet, Pricing Based on Operating Costing, Canteen or Hotel Costing, Boiler House Costing, Hospital Costing, Theatre Costing, Electricity Costing <b>Practical :</b> Visit any enterprise in service industry and determine cost of service</p>	15
	<p style="text-align: center;">Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours. Instructions:</p> <ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol> <p>Q. 1 a. Choose the appropriate alternative (10) b. True or false (6) Q.2 Case Study/Problem (16) Q.3 Short Notes (any 4 out of 6) (16) Q.4 Long answer question/practical problem (16) Q.5 Long answer question/practical problem (16) Q. 6. a. Short answer question/ problem (8) b. Short answer question/ Problem (8)</p> <p style="text-align: center;">*****</p>	



**Paper III : DSE-B-III : Advanced Costing  
(Techniques of Costing)**

**Course Outcomes:**

After studying this course, the students shall be able:

1. To understand the techniques of costing for decision making
2. To analyse the cost for decision making with the help of marginal costing
3. To identify the standard costs and compare them with the actuals
4. To demonstrate the behaviour of cost drivers and its relevance

Unit	Contents :	No. of Hours
I	<p><b>Marginal Costing and CVP Analysis</b>            Meaning of Marginal Cost, Contribution, Basic Equation of Marginal Costing, Cost Volume Profit Analysis, Profit Planning, Break Even Analysis, Decision Making with the help of Marginal Costing</p> <p><b>Practical:</b> Visit any manufacturing enterprise and classify the costs based on variability and calculate break-even point            Make graphical determination of break-even point</p>	15
II	<p><b>Standard Costing and Variance Analysis :</b>            Meaning and Features of Standard Cost, Setting of Standards, Types of Standards, Meaning of Standard Costing, Concept of Variance Analysis, Material, Labour and Overhead Variances</p> <p><b>Practical:</b> Prepare power point presentation on different aspects of Standard Costing</p>	15
III	<p><b>Activity Based Costing</b>            Meaning and Nature of Activity Based Costing, Concept of Cost Drivers, Preparation of Cost Statement, Income Statement on the basis of Activity Based Costing as well as Absorption Costing</p> <p><b>Practical :</b> Assignments or problems on Activity Based Costing.</p>	15
IV	<p><b>Uniform Costing :</b>            Meaning of Uniform Costing, Features, Advantages and Limitations of Uniform Costing, Uniform Costing and Interfirm Comparison, Prerequisites of Uniform Costing</p> <p><b>Practical :</b> Group Discussion on various aspects of 'Uniform Costing and Interfirm Comparison'</p>	15
	<p style="text-align: center;">Shivaji University, Kolhapur            Nature of Question Paper for            M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours.            Instructions:</p> <ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol> <p>Q. 1 a. Choose the appropriate alternative (10)            b. True or false (6)            Q.2 Case Study/Problem (16)            Q.3 Short Notes (any 4 out of 6) (16)</p>	

Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	
*****		

**Reference Books:**

1. Cost Accounting –Principles and Practice : M. N. Arora, Vikas Publishing
2. Cost Accounting : Horngreen, Datar and Rajan, Pearson Education Publishers
3. Cost Accounting- Text, Problems and Solutions : Shukla, Grewal and Gupta, S.Chand
4. Cost Accounting – Principles and Practice : Jain and Narang, Kalyani Publishers
5. Cost Accounting – Theory and Practice: Palniaappan and Hariharan, I K International Publishing House
6. Elements of Cost Accounting : S N Maheshwari, S N Mittal, Shree Mahaveer Book Depot
7. Cost Accounting : Jawahar Lal, Tata McGraw Hill
8. Advanced Cost and Management Accounting : Saxena and Vasishth, S.Chand and Sons
9. Cost Management : Ravi M Kishore, Taxmann Publications
10. Principles and Practice of Cost Accounting : Bhattachrya A K , Prentice Hall (I) Publishers

**Journals**

1. Management Accountant : The Institute of Cost and Management Accountants of India
2. Advances in Management Accounting : Emerald Publishing

<b>Paper-IV : DSE – B - IV : Advanced Costing (Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Analysis and interpretation of classified data by using statistical tools.</li> <li>(b) Testing of hypothesis by using appropriate test.</li> <li>(c) Report writing according to objectives and hypothesis.</li> </ol> <p>[Use any suitable software for the purpose of (a) and (b)]</p>	

Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books:		
<ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
Suggested Additional Readings:		
<ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>		
Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)		
Marks: 80 Duration: 3 hours.		
Instructions:		
<ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol>		
Q. 1 a. Choose the appropriate alternative	(10)	
b. True or false		(6)
Q.2 Case Study/Problem		(16)
Q.3 Short Notes (any 4 out of 6)		(16)
Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	

**Paper I : DSE-C-I : Taxation  
(Income-Tax)**

**Course Outcomes:**

After studying this course, the students should be able:

1. To understand the basic concepts of income-tax
2. To get insight about exemptions and deductions
3. To understand the clubbing and set-off provisions of income-tax
4. To compute taxable income of individual and HUF

Unit	Contents:	No. of Hours
I	<p><b>Basic Concepts:</b> Definitions under Income-Tax Act, Residential Status, Scope of Income, Exemptions, Heads of Income <b>Practical:</b> Prepare the power point presentation on examples of residential status, scope of income and heads of income</p>	15
II	<p><b>Taxability of Individual and HUF:</b> Computation of taxable income and tax liability in respect of individuals and HUF, Deductions under chapter VI A <b>Practical:</b> Visit any household and compute the taxable income and tax liability of an individual or HUF</p>	15
III	<p><b>Taxability of Firm and Company</b> Provisions applicable to compute the taxable income of partnership firms and companies, Computation of taxable income and tax liability of firm as well as company. <b>Practical:</b> Visit the office of a firm/ company/ tax consultant and compute the taxable income and tax liability of a Firm or a Company</p>	15
IV	<p><b>Clubbing and Set-off:</b> Provisions relating to clubbing of income of one person in the hands of others, Provisions relating to Set-off and carry forward of losses under different heads of income <b>Practical:</b> Write an assignment on set-off and carry forward of losses Arrange a lecture of tax consultant on clubbing/set-off/carry forward of losses</p>	15
	<p>Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours. Instructions:</p> <ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol> <p>Q. 1 a. Choose the appropriate alternative (10) b. True or false (6)</p> <p>Q.2 Case Study/Problem (16)</p> <p>Q.3 Short Notes (any 4 out of 6) (16)</p> <p>Q.4 Long answer question/practical problem (16)</p> <p>Q.5 Long answer question/practical problem (16)</p> <p>Q. 6. a. Short answer question/ problem (8) b. Short answer question/ Problem (8)</p> <p style="text-align: center;">*****</p>	

**Paper-II : DSE-C-II : Taxation  
(Income Tax)**

**Course Outcomes:**

After studying this course, the students shall be able:

1. To understand the procedure of filing of income tax returns
2. To get insight about appeals, revision, search, survey and rectification
3. To understand the provisions of TDS and TCS
4. To calculate relief under section 89(1)

Unit	Contents :	No. of Hours
I	<p><b>Returns and Assessment</b> Forms of income-tax returns, Filing of income-tax returns, online filing of returns, online payment of taxes, Assessment by the Income-Tax Authorities</p> <p><b>Practical:</b> Visit the website of the Income-Tax Department and understand the procedure of online filing of return of income-tax (<a href="http://www.incometaxindiaefiling.gov.in">www.incometaxindiaefiling.gov.in</a>)</p>	15
II	<p><b>Appeals, Revision:</b> Provisions relating to appeals, revision, rectification of mistakes, Powers and Duties of authorities regarding appeals and revisions, Types of assessment</p> <p><b>Practical:</b> Prepare power point presentation on various types of appeals</p>	15
III	<p><b>TDS and TCS</b> Tax Deduction and Tax Collection at Source, Provisions relating to TDS and TCS, Procedure of filing of return of TDS</p> <p><b>Practical:</b> Visit the website of the Income-Tax Department and understand the procedure of filing of TDS returns (<a href="http://www.incometaxindiaefiling.gov.in">www.incometaxindiaefiling.gov.in</a>)</p>	15
IV	<p><b>Tax Audit, Search, Survey and Relief</b> Provisions relating to Tax Audit under section 44 AB, Provisions relating to Search, Survey and Relief, Powers and Duties of the Authorities of Income Tax</p> <p><b>Practical:</b> Visit office of any Chartered Accountant and understand the manner of preparation of Tax Audit Report Arrange a guest lecture of a Chartered Accountant on different aspects of tax</p>	15
	<p style="text-align: center;">Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours. Instructions:</p> <ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol> <p>Q. 1 a. Choose the appropriate alternative (10) b. True or false (6)</p> <p>Q.2 Case Study/Problem (16)</p> <p>Q.3 Short Notes (any 4 out of 6) (16)</p> <p>Q.4 Long answer question/practical problem (16)</p> <p>Q.5 Long answer question/practical problem (16)</p> <p>Q. 6. a. Short answer question/ problem (8) b. Short answer question/ Problem (8)</p> <p style="text-align: center;">*****</p>	

**Paper-III : DSE-C-III : Taxation  
(Income Tax)**

**Course Outcomes:**

After studying this course, the students shall be able:

1. To understand the basic concepts of customs duty and profession tax
2. To get insight about valuation, classification and exemption from customs duty
3. To understand the procedure of returns and assessment under Customs Act
4. To compute customs duty on imported products

Unit	Contents:	No. of Hours
I	<p><b>Introduction to Customs Duty:</b> Meaning of Customs Duty, Constitutional Provisions, Sources of customs law, levy of customs duty, customs duty non-leviable in certain cases, exemption from customs duty <b>Practical:</b> Write an assignment on the constitutional provisions of customs duty</p>	15
II	<p><b>Valuation for Customs Duty:</b> Classification of imported/exported goods, valuation of imported/exported goods, Dates for determining rate of duty and tariff valuation, types of customs duty, Import and export procedure, Clearance for home consumption, Duty drawback <b>Practical:</b> Prepare a power point presentation on types of duty</p>	15
III	<p><b>Profession Tax</b> Meaning, Rate, Significance of Profession Tax, Applicability of Profession Tax, Compliance of provisions in Profession Tax Act and assessment procedure <b>Practical:</b> Write an assignment on applicability of profession tax.</p>	15
IV	<p><b>Returns and Assessment:</b> Various returns to be filed for customs duty as well as profession tax, Assessment procedure under Customs Act and Profession Tax Act. <b>Practical :</b> Visit any importer/exporter or service provider and understand the procedure of return filing of customs Arrange a guest lecture of a tax consultant on import/export procedure and duties</p>	15
	<p style="text-align: center;">Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours. Instructions:</p> <ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol> <p>Q. 1 a. Choose the appropriate alternative (10) b. True or false (6) Q.2 Case Study/Problem (16) Q.3 Short Notes (any 4 out of 6) (16) Q.4 Long answer question/practical problem (16) Q.5 Long answer question/practical problem (16) Q. 6. a. Short answer question/ problem (8) b. Short answer question/ Problem (8)</p> <p>*****</p>	

**Reference Books:**

Direct Taxes : V.K. Singhania, Taxmann Publications

Direct Taxes : T.N. Manoharan, Snow White Publications

Indirect Taxes : V.S. Datey, S.Chand Publications

Business Taxation: : T S Reddy, Y H Reddy, Margham Publications

Taxation – Law and Practice : Balchandran, Thothadri, Prentice Hall India Publishers

Taxation Laws : Atal Kumar, Central Law Publications

Study Material (CA Final and IPCC) issued by Institute of Chartered Accountants of India

Income Tax Ready Reckoner : Dr. Vinod K. Singhania, Taxmann Publications

**Journals:**

The Chartered Accountant, The Institute of Chartered Accountants of India

Management Accountant, The Institute of Cost and Management Accountants of India

Indian Journal of Tax Law, National Law University, Odisha



<b>Paper-IV : DSE – C – IV : Taxation (Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Analysis and interpretation of classified data by using statistical tools.</li> <li>(b) Testing of hypothesis by using appropriate test.</li> <li>(c) Report writing according to objectives and hypothesis.</li> </ol> [Use any suitable software for the purpose of (a) and (b)]	

Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books:		
<ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
Suggested Additional Readings:		
<ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>		
Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)		
Marks: 80 Duration: 3 hours.		
Instructions:		
<ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol>		
Q. 1 a. Choose the appropriate alternative	(10)	
b. True or false		(6)
Q.2 Case Study/Problem		(16)
Q.3 Short Notes (any 4 out of 6)		(16)
Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	

<b>Paper-I : DSE-D-I : Advanced Banking and Financial System</b> <b>(Law and Practice of Banking in India)</b> <b>Introduced from June 2019</b>		
<b>Course Outcomes:</b>		
<ol style="list-style-type: none"> <li>1. Learners will be able to explain Regulatory Framework for Banking in India</li> <li>2. Learners will understand the Legal Aspects of Banking Operations</li> <li>3. Learners will apply the knowledge of legal provisions for banking business practices</li> <li>4. Learners will understand different provisions under cyber Laws</li> </ol>		
<b>Expected Skills Impartation</b>		
<ol style="list-style-type: none"> <li>1. Ability to apply legal provisions in banking business</li> <li>2. Ability to understand the legal applications in banking sector</li> <li>3. Ability to conduct proper banking activities as per legal provisions</li> </ol>		
Marks : 100	Total Lectures of Teaching : 60	Credits : 4
<b>Unit-1:</b>	<b>Regulatory Framework for Banking in India</b>	12 Lectures
	<ol style="list-style-type: none"> <li>1.1. RBI Act 1934 &amp; Amendments</li> <li>1.2. Banking Regulation Act 1949 &amp; Amendments</li> <li>1.3. Negotiable Instruments Act 1881 &amp; Amendments</li> <li>1.4. Banking Ombudsman - Powers, Provisions and Procedures</li> </ol>	
<b>Unit-2:</b>	<b>Legal Aspects of Banking Operations</b>	18 Lectures
	<ol style="list-style-type: none"> <li>2.1. The Bankers' Books Evidence Act-1891- Important Provisions</li> <li>2.2. Payment and Settlement Systems Act, 2007- Applicability and Important Provisions</li> <li>2.3. The SARFEASI Act -2002, Legal aspects of Debt Recovery Tribunals</li> <li>2.4. Prevention of Money Laundering Act, 2002 &amp; Bankers Responsibilities</li> </ol>	
<b>Unit-3:</b>	<b>Laws Related to Banking</b>	13 Lectures
	<ol style="list-style-type: none"> <li>3.1. Consumers Protection Act-1986</li> <li>3.2. The Credit Information Companies (Regulation) Act, 2005</li> <li>3.3. Foreign Exchange Management Act, 1999</li> <li>3.4. Ombudsman Scheme-General Scheme &amp; Scheme for Digital Transactions-2019</li> </ol>	
<b>Unit-4:</b>	<b>Cyber Laws and Financial Crimes</b>	17 Lectures
	<ol style="list-style-type: none"> <li>4.1. Meaning and Types of Financial Cyber Crimes</li> <li>4.2. Information Technology Act, 2000: Authorities, Powers, Offences and Penalties</li> <li>4.3. Data Security and Importance</li> <li>4.4. Case Studies on Cyber Crimes</li> </ol>	
<b>References :</b>		
<ol style="list-style-type: none"> <li>1. M.L.Tannan, C.R. Datta &amp; S.K. Kataria (2011) Banking Law and Practice, Wadhwa &amp; Company, Nagpur</li> <li>2. Sudhir Naib, The Information Technology Act, 2005: A Handbook, OUP, New York, (2011)</li> <li>3. S. R. Bhansali, Information Technology Act, 2000, University Book House Pvt. Ltd., Jaipur (2003).</li> <li>4. Vasu Deva, Cyber Crimes and Law Enforcement, Commonwealth Publishers, New Delhi, 2003).</li> <li>5. Foreign Exchange Management Act, 1999</li> </ol>		

6. The Maharashtra Regional and Town Planning Act, 1966
7. The Bankers' Books Evidence Act-1891
8. The Banking Companies (Acquisition and Transfer of Undertakings) Act-1970
9. The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act- (SARFASI-2002)
10. Ombudsman Scheme for Digital Transactions, 2019-  
[https://rbi.org.in/scripts/FS\\_FAQs.aspx?Id=127&fn=9](https://rbi.org.in/scripts/FS_FAQs.aspx?Id=127&fn=9)
11. Payment and Settlement Systems Act, 2007 [https://rbi.org.in/scripts/FS\\_FAQs.aspx?Id=73&fn=9](https://rbi.org.in/scripts/FS_FAQs.aspx?Id=73&fn=9)
12. The Credit Information Companies (Regulation) Act, 2005

## Paper-II : DSE-D-II : Advanced Banking and Financial System

### (Bank Management)

Introduced from June 2019

#### Course Outcomes:

1. Learners will be able to understand bank management system and practices
2. Learners will understand the nature of Bank Management
3. Learners will aware about recent technologies required for efficient Banking and Marketing.
4. Learners will understand legal provisions for customer services and banking frauds

#### Expected Skills Impartation

1. Ability to understand bank management and administration
2. Ability to handle bank and bank branch management practices
3. Ability to conduct bank audit and manage audit compliances

Marks : 100

Total Lectures of Teaching : 60

Credits : 4

<b>Unit-1:</b>	<b>Administrative Structure of the Banks</b>	
	<ol style="list-style-type: none"> <li>1.1. Administrative Structure of Commercial Bank- Committees and Departments</li> <li>1.2. Administrative Structure of Cooperative Bank –Committees and Authorities</li> <li>1.3. Important departments in the Head office of the Bank and its nature</li> <li>1.4. Duties and Responsibilities of CEO of the Bank</li> </ol>	18 Lectures
<b>Unit-2:</b>	<b>Bank Branch Management</b>	
	<ol style="list-style-type: none"> <li>2.1. Structure and Staffing Pattern of the Bank Branch</li> <li>2.2. Control on Cash , Strong room and Lockers</li> <li>2.3. Role and Responsibilities of Branch Manager</li> <li>2.4. Importance and Techniques of Customer Relationship Management at branch</li> </ol>	12 Lectures
<b>Unit-3:</b>	<b>Bank Management Practices</b>	
	<ol style="list-style-type: none"> <li>3.1. Allocation of duties and monitoring and Branch office</li> <li>3.2. Target allocation and Planning – Deposit and Loans</li> <li>3.3. Sources of Deposits - Factors influencing the mobilization of deposits</li> <li>3.4. Fund Management – Structure and Functioning of Treasury Department of the Bank</li> </ol>	15 Lectures

<b>Unit-4:</b>	<b>Bank Administration</b>  4.1. Board of Directors-Commercial and Cooperative Banks – Responsibilities and Code of conduct 4.2. Bank Audit – Importance, Internal Audit System, Statutory Audit and its compliance 4.3. Information System Audit – Importance, Process and its compliance 4.4. Contains and Process of Preparation of Budget	15 Lectures
<p><b>References :</b></p> <ol style="list-style-type: none"> <li>1. Francis Buttle (2004): Customer Relationship Management: Concepts and Tools, Customer relationship management: concepts and tools, Elsevier Butterworth Heinemann, Volume 13, 2004</li> <li>2. George H. Hempel, Donald G. Simonson (2018). Bank Management: Text and Cases, Wiley, 2020 ISBN 0471410918</li> <li>3. IIBF (2005). General Bank Management : (For CAIIB Examinations), Indian Institute of Banking and Finance, Macmillan, 2005</li> <li>4. Kanhaiya Singh (2013). Commercial Bank Management, Tata McGraw-Hill Education, 2013</li> <li>5. Peter S. Rose, Sylvia C. Hudgins (2008). Bank Management and Financial Services, McGraw-Hill Education, 2008</li> <li>6. Timothy W. Koch, S. Scott MacDonald (2014). Bank Management, Cengage Learning, 2014,</li> <li>7. Timothy W. Koch, Steven Scott MacDonald, Vic Edwards, Randall E. Duran (2014). Bank Management: A Decision-Making Perspective, Cengage Learning Asia, 2014</li> <li>8. V.S.P. Rao (1999). Bank Management, Discovery Publishing House, 1999 ISBN 8171415105,</li> </ol>		

<b>Paper-III : DSE-D-III : Advanced Banking and Financial System</b> <b>(Law and Practice of Banking in India)</b> <b>Introduced from June 2019</b>		
<b>Course Outcomes:</b>		
<ol style="list-style-type: none"> <li>1. Learners will be able to explain bank licensing and banking operations</li> <li>2. Learners will understand the legal aspects of banking operations</li> <li>3. Learners will apply the knowledge of legal provisions for banking services</li> <li>4. Learners will understand legal provisions for customer services and banking frauds</li> </ol>		
<b>Expected Skills Impartation</b>		
<ol style="list-style-type: none"> <li>1. Ability to apply legal provisions of bank licensing policies</li> <li>2. Ability to understand the legal applications of banking operations</li> <li>3. Ability to conduct proper banking activities as per legal provisions</li> </ol>		
Marks : 100	Total Lectures of Teaching : 60	Credits : 4
<b>Unit-1:</b>	<b>Bank Licensing and Banking Operations</b>	
	<ol style="list-style-type: none"> <li>1.1. New Bank Licensing Policy, 2013</li> <li>1.2. Licensing and Operations of Foreign Banks and Local Area Banks</li> <li>1.3. Licensing and Operations of Small Finance Banks and Payment Banks</li> <li>1.4. Licensing and Operations of Branches, Extension Counters and ATMs</li> </ol>	12 Lectures
<b>Unit-2:</b>	<b>Legal Aspects of Banking Operations</b>	
	<ol style="list-style-type: none"> <li>2.1. Legal Provisions for NRE, NRO and FCNR Bank Accounts</li> <li>2.2. Currency Management - Provisions under Section 22 of the RBI Act</li> <li>2.3. Charging Securities -Lien, Pledge, Mortgage and Hypothecation</li> <li>2.4. Precautions to be taken while Creation of Charge, Mortgage and Hypothecation</li> </ol>	17 Lectures
<b>Unit-3:</b>	<b>Legal Provisions for Banking Services</b>	
	<ol style="list-style-type: none"> <li>3.1. Legal Provisions relating to Banker-Customer Relationship</li> <li>3.2. Paying and Collecting Banker - Responsibilities and Obligations</li> <li>3.3. Laws and regulations relating to Bill Finance and Letter of Credit (LC)</li> <li>3.4. Provisions under Cheque Truncation System (CTS) Scheme</li> </ol>	16 Lectures
<b>Unit-4:</b>	<b>Legal Provisions for Customer Services and Banking Frauds</b>	
	<ol style="list-style-type: none"> <li>4.1. The Banking Companies (Nomination) Rules, 1985 and Recent Amendments</li> <li>4.2. Disclosures and Privacy of Information in Banking sector</li> <li>4.3. Code of Bank's Commitment to Customers and BCSBI</li> <li>4.4. Banking Frauds- Classification and Reporting of Fraud to RBI</li> </ol>	15 Lectures

**References :**

1. Arora and Kalra (1999), “All India Banking Law Digest, (1995-1999),  
Delhi Law House
2. IIBF(2007), “Laws of Co-operative Banking”, Macmillan India Ltd.,
3. M.L. Tannan, Tannan’s Banking Law and Practice in India (Eighth  
Edition-2008), India Law House, New Delhi, 2 volumes
4. M.L.Tannan, C.R. Datta & S.K. Kataria (2011) Banking Law and Practice, Wadhwa & Company,  
Nagpur
5. Sudhir Naib, The Information Technology Act, 2005: A Handbook, OUP, New York, (2011)
6. Tannan (2001), “Banking Law & Practice in India” 20/e (Stud. ed),  
Delhi Law House
7. The Institute of Company Secretaries of India (2014) Banking – Law &  
Practice <https://www.icsi.edu/media/webmodules/publications/9.1%20Banking%20Law%20-Professional.pdf>
8. The Institute of Company Secretaries of India (2018) Banking – Law &  
Practice [https://www.icsi.edu/media/webmodules/BANKING\\_LAW\\_AND\\_PRACTISE\\_30112018.pdf](https://www.icsi.edu/media/webmodules/BANKING_LAW_AND_PRACTISE_30112018.pdf)
9. Vasu Deva, Cyber Crimes and Law Enforcement, Commonwealth  
Publishers, New Delhi, 2003)

<b>Paper-IV : DSE-D-IV : Advanced Banking and Financial System</b>		
<b>(Research Methodology)</b>		
<b>Introduced from June 2019</b>		
<b>Course Outcomes:</b>		
<ol style="list-style-type: none"> <li>1. Learners will able to understand the Research Design, Research Process</li> <li>2. Learners will able understand types of hypothesis and importance of hypothesis testing</li> <li>3. Learners will able to understand the Sampling Techniques, Data Processing &amp; Report Writing</li> <li>4. Learners will able to understand the use of Technology in Research</li> </ol>		
<b>Expected Skills Impartation</b>		
<ol style="list-style-type: none"> <li>1. Ability to apply research methods for investigation of banking issues and problems</li> <li>2. Ability to analyze banking problems and conduct investigations</li> <li>3. Ability to scientific report writing and use of technology for conducting banking research</li> </ol>		
Marks : 100	Total Lectures of Teaching : 60	Credits : 4
<b>Unit-1:</b>	<b>Introduction to Research</b>	
	<ol style="list-style-type: none"> <li>1.1. Meaning, definitions and types of Research</li> <li>1.2. Characteristics of scientific research method</li> <li>1.3. Ethics in Banking and Financial Research</li> <li>1.4. Limitations of Research in Banking sector</li> </ol>	15 Lectures
<b>Unit-2:</b>	<b>Design and Process of Research</b>	
	<ol style="list-style-type: none"> <li>2.1. Research Design: Meaning, Types and Components</li> <li>2.2. Formulation of Research Problem</li> <li>2.3. Research Process</li> <li>2.4. Hypothesis – Meaning, Types, Formulation and Testing</li> </ol>	15 Lectures
<b>Unit-3:</b>	<b>Data Collection, Sampling &amp; Report Writing</b>	
	<ol style="list-style-type: none"> <li>3.1. Data Types and Sources of data collection</li> <li>3.2. Sampling Techniques: Probability and Non-Probability</li> <li>3.3. Data Processing, Analysis and Presentations</li> <li>3.4. Report Writing : Contents and presentations techniques</li> </ol>	15 Lectures
<b>Unit-4:</b>	<b>Technology in Banking Research</b>	
	<ol style="list-style-type: none"> <li>4.1. Use of Excel for Data Processing and Analysis</li> <li>4.2. Statistical Package for Social Sciences (SPSS) : Data Processing and Analysis</li> <li>4.3. Online Survey: Advantage &amp; Disadvantages</li> <li>4.4. Introduction to SERVQUAL Model for banking research</li> </ol>	15 Lectures
<b>References :</b>		
<ol style="list-style-type: none"> <li>1. Krishnaswamy O. R., Rangnatham M. (2005) .Methodology of Research in Social Sciences, Himalaya Publishing House, New Delhi.</li> <li>2. Kothari C. R. (2014). Research Methodology: Methods and Techniques, New Age International Publishers, Mumbai.</li> <li>3. Michel V.P. (2012) Research Methodology for Management, Himalaya Publishing House, New Delhi.</li> <li>4. Fisher R. A. (2002). Statistical Methods for Research Workers by, Cosmo Publications, New Delhi.</li> <li>5. Montgomery D.C. (2001).Design and Analysis of Experiments, John Wiley,</li> <li>6. Suchdeva J. K. (2017). Business Research Methodology, Himalaya Publishing House, New Delhi.</li> <li>7. Wilkinson T.S., Bhandarkar P.L. (2010). Methodology and Techniques of Social Research, Himalaya</li> </ol>		



Publishing House, New Delhi.

8. Hans Raj (2011). Theory & Practice in Social Research, Surjeet Publications, Delhi
9. Hansa L. M. (2016). Data Analysis and Business Modelling using Microsoft Excel, PHI Learning Pvt. Ltd., New Delhi.
10. IBM SPSS Statistics 22 Core System User's Guide
11. Parasuraman, A., Zeithaml, V.A. and Berry, L.L. (1988), "SERVQUAL: a multi-item scale for measuring consumer perceptions of the service quality", Journal of Retailing, Vol. 64, No. 1, pp. 12-40.

<b>Paper - I: DSE – E – I : Business Administration (Introduction to Business Administration)</b>		
<b>Course Outcome:</b>		
<ol style="list-style-type: none"> <li>1. Understand the meaning and concept of business administration.</li> <li>2. Understand analysis of business environment.</li> <li>3. Get acquainted with concept of LPG and current scenario of business in India.</li> <li>4. Aware about business ethics and corporate culture.</li> </ol>		
Units	Name of the unit	No. of lectures
<b>Unit I</b>	<b>A) Business Administration:-</b> Concept, Definitions, Nature , scope Characteristics, Objectives of business. Challenges and opportunities before today’s business. E-Business- Concept Definitions, features, significance in present scenario.  <b>B) Administration:</b> - Concept , definitions, features <b>C) Business Administration :-</b> Concept, definitions, features, and importance of business administration	15
<b>Practical:</b>	Visit to business organisation and to get information about business administration and Prepare report on it.	
<b>Unit II</b>	<b>Business Environment:-</b> Concept, Macro and Micro elements. Environment Analysis- Process- spot analysis, Industry analysis, situation analysis, SWOC analysis.	15
<b>Practical</b>	Visit and make environmental analysis of any business organisation and present seminar on it in the classroom	
<b>Unit III</b>	<b>Government and Business:-</b> Changing role of Government in business, Public Private and Joint Sector. Social Responsibility of Business, Business and society, Liberlisation, Privatisation and Globalisation in Business. Social Audit- Nature, Evolution, status in India.	15
<b>Practical</b>	Make a social audit of any business organisation in your area and prepare social audit report.	
<b>Unit IV</b>	<b>Business Ethics:-</b> Concept and definitions, nature, sources, Ethical dilemmas, Managing Ethical dilemma, Corporate Culture and ethics, methods to improve ethical decisions, factors that raise ethical Standard , Code of Ethics.	15
<b>Practical</b>	Visit to any business organisation and get the information about business ethics followed by the organisation and present seminar on it.	
	Reference Books: 1) Knootz Weiandrich, Essentials of Management, McGraw Hill International, 2) Kazmi , Business Policy, Tata McGraw Hill, 3) Tripathi Reddy Principles of Management, Tata McGraw Hill, 4) Francis Cherunilam, Business Environment, Himalaya Publishing House. 5) Balsubramanian , Corporate Governance.	

	6) Aswathappa K. Legal Environment of Business, Himalaya Publishing House. 7) Trivedi M. L. Government and Business, Bombay Multitech. 8) Amarchand D. , Government and Business, Tata McGraw Hill 9) Guleek William F., Strategic Management and Business Policy, McGraw Hill.	
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<b>M. Com. Part-I</b> <b>Paper II : DSE – E – II: Business Administration</b> <i>(Functional Areas of Management : Marketing and Fianance)</i>				
<ul style="list-style-type: none"> <li>• <b>Course Outcomes:</b> 1. Students will be able to define the concept of Human Resource Management; 2. Students will able to understand the Recent Trends in Operation Management.</li> <li>• <b>Expected Skills Impartation (Through theory and Practical's):</b> <ol style="list-style-type: none"> <li>1. Student will aware about conducting the interview of HR Manager;</li> <li>2. He/She will able to prepare mini project report;</li> <li>3. Student will acquire and develop the thinking power and project preparation skills independently.</li> </ol> </li> </ul>				
Sr. No.	Syllabus Unit	Learning Outcomes	Teaching Methods	No. of Lectures
1.	<b>HUMAN RESOURCE MANAGEMENT(HRM):</b> 1.1. Meaning and Definition 1.2. Difference between Personnel Management and Human Resource Management 1.3. Objectives of HRM 1.4. Scope and Functions OF HRM 1.5. Evolution and Development of HRM 1.6. Environment of HRM: Internal and External	Students will be able to define the concept of Human Resource Management;	Lecture, Interactive, ICT based	<b>15</b>
<b>PRACTICAL:</b> 1. Visit to Human Resource Department of nearby industrial unit and prepare a visit report on that department. Prepare a Mini Project on HRM of the Industry.				
2.	<b>RECENT TRENDS IN HUMAN RESOURCE MANAGEMENT</b> <b>A. MANAGING HUMAN RESOURCES IN VIRTUAL ORGANIZATION(VO)</b> 2.1. Meaning, Features and Types of VOs 2.2. Difference between Traditional and Virtual Organization 2.3. HRM IN VOs <b>B. HUMAN RESOURCE INFORMATION SYSTEM (HRIS)</b> 2.4. Concept and need for HRIS 2.5. Advantages and Uses of HRIS 2.6. Designing of HRIS	Students will aware about Recent Trends in Operation Management.	Lecture, Interactive, ICT based and Discussion Method.	<b>15</b>

	<b>PRACTICAL:</b> From the internet download the articles, research articles, news paper reports on virtual organization. Study the scenario of virtual organization focusing on human resource. Prepare a review report and submit.			
3.	<b>OPERATION MANAGEMENT (OM)</b>	Students will be acquainted with Operations Management	Lecture and Discussion Method	15
	3.1. Concept and Scope			
	3.2. Objectives of OM			
	3.3. Role of Operational Management in Organization			
	3.4. Differences and Similarities between Goods and Services			
	3.5. Typical Decision Areas within OM			
	3.6. Trends encouraging focus on Operations			
	3.7. Material Handling			
	3.8. Principles of Material Handling			
	3.9. Equipments used in Material Handling			
	<b>PRACTICAL:</b> Visit a manufacturing unit nearby and study the functioning of operations management. Study the machines, tools in use, flow of job and the like prepare a report and submit.			
4.	<b>RECENT TRENDS IN OPERATIONS MANAGEMENT</b>	Students will be well awarded about Recent Trends in Operations Management	Lecture and Discussion	15
	4.1. CAD (Computer Aided Design)			
	4.2. CAM (Computer Aided Manufacturing)			
	4.3. Robotics			
	4.4. Automation			
	4.5. Flexible Manufacturing System			
	4.6. Just In Time Manufacturing			
	4.7. Lean Manufacturing			
	4.8. Factors affecting Technology Change			
	<b>PRACTICAL:</b> from the website download the articles and news appeared in the news paper regarding recent trends in operations management. Prepare a review report. Mention in the report which units are applying these concepts.			
	<b>Reference Books:</b> <ol style="list-style-type: none"> <li>1. S.S Khanna: Human Resource Management: Text and Cases, S. Chand Publication, New Delhi</li> <li>2. P. Subba Rao: Human Resource Management Himalaya Publishing Company, Mumbai.</li> <li>3. K. Ashwathappa: Production and Operation Management, Himalaya Publishing House, Mumbai.</li> <li>4. Danny Samson and Prakash J. Singh: Operation Management: An Integrated Approach, CAMBRIDGE University Press.</li> <li>5. D' Cenzo Robinson: Human Resource Management</li> <li>6. Indranil Mutusddi: Essentials of HRM.</li> </ol>			

<b>Paper-III : DSE - E – III Business Administration</b> (Functional Areas of Management : HR and Operations)		
Course Outcomes:		
<ol style="list-style-type: none"> <li>1. Ability to understanding concept of marketing and finance.</li> <li>2. Applicability of various tools and techniques of marketing and financial management for business success.</li> <li>3. Analyze the opinions and data collected from small samples.</li> </ol>		
Sr.No.	Name of the unit	No. of lectures
Unit No.1	Marketing Management: Meaning, Definition, Nature, Scope, Functions and Importance of marketing Management, Difference between selling and marketing, Marketing environment, Marketing planning, Factors affecting consumer behavior, Market segmentation, Targeting and positioning, Marketing Mix, 4p's of Marketing, Marketing Information System	15
Practical No.1	Visit a business unit nearby and study the marketing system of the unit . Planning, Segment they target , Marketing Mix they offer in detail . Prepare a report and submit.	
Unit No.2	Issues and Development in Marketing: Concept of CRM and its application, Direct Marketing-Tools used , Retailing, Service Marketing, B2B Marketing , Ethical and legal aspects of marketing, Digital Marketing, Green Marketing, Online Marketing.	15
Practical No.2	Meet minimum 30 people around your residence , take survey on awareness of contemporary marketing issues . Experience of sample on on-line marketing, social marketing , Prepare a survey report and submit.	
Unit No.3	Financial management: Meaning, Definition, Nature, Scope, Functions and Importance of financial Management, Financial Planning, Cost of Capital, Capital Budgeting, Lease Finance, Hire Purchase, Working Capital Management –Ratio Analysis, Dividend Policy, Depreciation Methods, Financial Management for business expansion, Combination and Acquisition.	15
Practical No.3	Analyze the financial statements of any firm with the help of Ratio analysis to know their liquidity, profitability and solvency.	
Unit No.4	Issues and Development in financial management: Credit Rating, Project Financing, Factoring, Marketing of Financial Services.	15
Practical No.4	Visit a nearby banking and financial institution to know various type of financial services provided by to customers and types of channels used for marketing purpose.	
	Reference Books: <ol style="list-style-type: none"> <li>1. Philip Kotler, Marketing Management, Prentice Hall, New Delhi.</li> <li>2. William Stanton, Fundamentals of Marketing.</li> <li>3. Bhatia and Batra, Management of Financial Services, Deep and Deep Publication, Delhi.</li> <li>4. Vanhorne, Fundamentals of Financial Management, Prentice Hall, India, Delhi.</li> <li>5. I .M. Pandey Financial Management, Vikas Publication House, New Delhi.</li> <li>6. Chandra Prasanna, Financial Management, Tata McGraw Hill, Delhi.</li> </ol>	

<b>Paper- IV : DSE - E – IV : Business Administration</b>		
<b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Analysis and interpretation of classified data by using statistical tools.</li> <li>(b) Testing of hypothesis by using appropriate test.</li> <li>(c) Report writing according to objectives and hypothesis.</li> </ol>	

	[Use any suitable software for the purpose of (a) and (b)]	
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books:		
<ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
Suggested Additional Readings:		
<ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>		
Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)		
Marks: 80 Duration: 3 hours.		
Instructions:		
<ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol>		
Q. 1 a. Choose the appropriate alternative	(10)	
b. True or false		(6)
Q.2 Case Study/Problem		(16)
Q.3 Short Notes (any 4 out of 6)		(16)
Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	

## Paper-I : DSE : G – I : Advanced Statistics

### (Mathematical Methods)

#### Course outcomes

After successful completion of this course, students will be able to

1. Perform determinant and matrix calculations.
2. Determine a solution of a system of linear equations.
3. Explain and apply the concepts of derivative and integration.

#### Unit-1: Determinants and Systems of Linear Equations

(15)

- i. Definition of determinant, Evaluation of determinants of order 2 and 3.
- ii. Properties of determinant (statements only), Verification of properties by Illustrations.
- iii. Concept of a system of linear equations.
- iv. Solution to system of linear equations by Cramer's rule (up to 3 variables).

Practical 1: Evaluation of determinants and solution of system of linear equations by Cramer's Rule.

#### Unit-2: Matrices

(15)

- i. Definition, Difference between matrix and determinant, Types of matrices.
- ii. Algebra of Matrices.
- iii. Rank of a matrix and its determination.
- iv. Inverse of a matrix by adjoint method and by row and column transformations.
- v. Applications of matrices in business.

Practical 2: Algebra, rank, and inverse of matrices

#### Unit-3: Derivative and its Applications

(15)

- i. Definition, Derivative by first principle.
- ii. Derivative of sum, difference, product, and quotient.
- iii. Derivative of composite, inverse, exponential, logarithmic, parametric, and implicit functions.
- iv. Second order derivative.
- v. Applications of derivative to obtain maxima and minima of the functions such as average cost, marginal cost, marginal revenue, and elasticity of demand.

Practical 3: Applications of derivative

#### Unit-4: Integration and its Applications

(15)

- i. Integration as an anti-derivative process.
- ii. Standard forms of integration.
- iii. Methods of integration by substitution and by parts.
- iv. Definite integrals and their properties with proofs.
- v. Determination of cost revenue and demand functions, consumer's surplus and producer's surplus.

Practical 4: Applications of integration



### Reference Books

1. Kapoor V. K. and Sancheti D. C. (2019) *Business Mathematics*, Sultan Chand & Sons.
2. Narayan Shanti and Mittal P.K. (2010) *Text book of Matrices*, S. Chand.
3. Soni R. S. (1996) *Business Mathematics with Applications in Business and Economics*, Pitambar Publishing.
4. Veena G. R. (2004) *Business Mathematics*, Galgotia Publications.

## Paper-II : DSE : G – II : Advanced Statistics (Operations Research)

### Course outcomes

After successful completion of this course, students will be able to

1. Explain the concept, scope, and limitations of operations research.
2. Formulate and solve linear programming problems, transportation problems, and assignment problems.
3. Apply these techniques in practice.

### Unit-1: Introduction to Operations Research

(15)

- i. Origin and development of *operations research* (OR).
- ii. Definition and Characteristics of OR.
- iii. Phases of OR.
- iv. Applications and scope of OR.
- v. Limitations of OR.

### Unit 2: Linear Programming Problems

(15)

- i. Concept of *linear programming problem* (LPP)
- ii. Mathematical formulation of LPP, Definitions of solution, feasible solution, basic feasible solution, optimal solution, degenerate and non- degenerate solutions of LPP.
- iii. Solution of LPP by graphical method.
- iv. Definitions of slack and surplus variables, Simplex method, definition of artificial variable, Big-M method.
- v. Numerical examples.

Practical 1: Formulation and solution of LPP using graphical method

Practical 2: Solution of LPP using simplex and Big M methods

### Unit-3: Transportation Problem

(15)

- i. Definition and mathematical formulation of *transportation problem* (TP), balanced and unbalanced TP.
- ii. Methods of finding initial basic feasible solution: north-west corner rule, least cost method, Vogel's approximation method.
- iii. Concepts of degenerate and non-degenerate TP.
- iv. Method for optimal solution: MODI method.
- v. Numerical examples.

Practical 3: Solution of TP using MODI method (for non-degenerate TPs only)

**Unit-4: Assignment Problem (15)**

- i. Definition and mathematical formulation of *assignment problem* (AP).
- ii. Relation between AP and TP.
- iii. Balanced and unbalanced AP.
- iv. Solution of AP using Hungarian method.
- v. Numerical examples.

Practical 4: Solution of AP using Hungarian method

**Reference Books:**

1. Sharma S. D. and Sharma H. (2010) *Operations Research: Theory, Methods and Applications*, Kedar Nath Ram Nath.
2. Sharma J.K. (2012) *Operations Research: Theory and Applications*, Laxmi Publications
3. Shenoy G. V. Shrivastava U. K., and Sharma S. C. (2018) *Operations Research for Management*, New Age International Publishers.
4. Swarup Kanti, Gupta P. K., and Man Mohan (2010) *Operations Research*, Sultan & Chand publishers.

**Paper-III : DSE : G – III : Advanced Statistics  
(Design of Experiments)**

**Course Outcomes:**

After completion of this course, students will be able to

1. Explain the basic concepts of design of experiments, CRD, RBD, and LSD.
2. Analyse CRD, RBD, and LSD.
3. Interpret the results of analysis of CRD, RBD, and LSD.
4. Identify the real life situations where CRD, RBD and LSD are applicable.

**Unit -1: Basic Concepts in Design of Experiments (15)**

- i. Basic terms in design of experiments: Experimental unit, treatment, layout of an experiment.
- ii. Basic principles of design of experiments: Randomization, replication, and local control.
- iii. Choice of size and shape of a plot for uniformity trials.
- iv. Analysis of variance (ANOVA): Mathematical models, assumptions, basic hypotheses, and ANOVA tables for one-way and two-way classifications, interpretation of results, illustrative numerical examples.

Practical 1: Problems on one-way and two-way ANOVA

**Unit-2: Completely Randomized Design (CRD): (15)**

- i. Application of the principles of design of experiments in CRD, layout, mathematical model, assumptions.
- ii. ANOVA for CRD and its interpretation.
- iii. Test of equality of two specified treatment effects, comparison of treatment effects using critical difference (CD).
- iv. Illustrative numerical examples

Practical 2: Problems on Analysis of CRD

**Unit-3: Randomized Block Design (RBD): (15)**

- i. Application of the principles of design of experiments in RBD, layout, mathematical model, assumptions.
- ii. ANOVA for RBD and its interpretation
- iii. Test of equality of two specified treatment effects, comparison of treatment effects using CD.
- iv. Advantages of RBD over CRD

- v. Illustrative numerical examples

Practical 3: Problems on Analysis of RBD

**Unit-4: Latin Square Design (LSD):**

**(15)**

- i. Application of the principles of design of experiments in LSD, layout, mathematical model, assumptions.
- ii. ANOVA for LSD and its interpretation.
- iii. Test of equality of two specified treatment effects, comparison of treatment effects using CD.
- iv. Advantages of LSD over RBD
- v. Illustrative numerical examples
- vi. Identification of the situations where CRD, RBD and LSD are applicable.

Practical 4: Problems on Analysis of LSD

**Reference Books:**

1. Gupta, S.C. and Kapoor, V.K (2019) *Fundamentals of Applied Statistics*, S. Chand & Sons, New Delhi.
2. Gun A. M, Gupta M. K., Dasgupta B. (2013) *Fundamental of Statistics, Vol. I and II*, The World Press Pvt. Ltd. Kolkata.
3. Montgomery, D.C.(2017) *Design and Analysis of Experiments*, Wiley Eastern Ltd., New Delhi
4. Das, M.N. and Giri, N.C.(1983) *Design and Analysis of Experiments*, Wiley Eastern Ltd., New Delhi.

<b>Paper-IV : DSE : G – IV : Advanced Statistics</b>		
<b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project,	15 Hours

	steps involved in report writing, requisites of good research report.																									
b) Practical	(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test. (c) Report writing according to objectives and hypothesis. [Use any suitable software for the purpose of (a) and (b)]																									
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.																									
<p>Reference Books:</p> <ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>																										
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<p>Marks: 80 Duration: 3 hours. Instructions:</p> <ol style="list-style-type: none"> <li>3. Question number 1, 2 and 3 are compulsory</li> <li>4. Attempt any two questions from question number 4 to 6.</li> </ol>																										
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**Paper I : DSE – H - I : Co –operation and Rural Development**

(Principles of Co – operation)

(CHOICE BASED CREDIT SYSTEM – (CBCS))

**Credits : 4**

Introduced from June 2019

**COURSE OUTCOMES:**

1. Awareness about co-operation at Global, National and Local for the post graduate students will be created.
2. The students will be equipped with the development of cooperative movement in India.
3. The students will get acquainted with the cooperative legislation in India.
4. The students will get familiar with the cooperative institutions in India.

UNIT -1	<p><b>Introduction to Co-operation</b></p> <p>1.1 Meaning, Origin and Development of Co-operation.</p> <p>1.2 Formation of Co- operative Societies</p> <p>1.3 Recent development in Co-operative Principles 1995.</p> <p>1.4 Role of Co-operation in Economic Development.</p>	15
UNIT -2	<p><b>Co-operative movement in India</b></p> <p>2.1 Origin and Development of Co-operative Movement Before 1991</p> <p>2.2 Co-operative Development after new economic policy 1991</p> <p>2.3 Challenges and Remedies to strengthen the co-operative movement.</p> <p>2.4 High Powered Committee Co-operatives 2009.</p>	15
UNIT -3	<p><b>Co-operative Legislation in India</b></p> <p>3.1 Review of Co-Operative Legislation in India.</p> <p>3.2 Role of State in Co-operative Development</p> <p>3.3 Main Provisions of Maharashtra Co-operative Act. 1960</p> <p>3.4 Co-operative Amendment Act 2013</p>	15
UNIT 4	<p><b>Co-operative Institutions in India</b></p> <p>4.1 National Bank For Agriculture And Rural Development</p>	15

	<p>4.2 National Co-operative Development Corporation</p> <p>4.3 Agriculture Co-operative Marketing Federation</p> <p>4.4 National Co-operative Union of India</p>	
<p><b>References</b></p> <p>1 Principles, problems and practice of cooperation - T.N. Hajela, shivalal, Agarawala and company, Agra.</p> <p>2 Theory History and practice of cooperation R.D. Bedi, Loyal Book Dept. Meerut</p> <p>3 Cooperation in India- H.R. Mukhi New Heights publishers, New Delhi</p> <p>4 Cooperation in India- B.S. Mathur, Sanitya Bhawan, Agra.</p> <p>5 Agricultural cooperation in India- Johan Mitthal, ReliancePublishing House, New Delhi.</p> <p>6 Law and Management of Cooperatives - B.B. Trivedi</p> <p>7 Fundamentals of cooperation - Krishna Swami, Schand and Company, Ltd. Ramanagar, New Delhi.</p> <p>8 Theory and practice of cooperation in India and Abrod. Vols. I, II, &amp; III - K.R. Kulkarni</p>		

<p><b>Paper II : DSE – H - II : Co –operation &amp; Rural Development</b></p> <p>(Rural Economy of India)</p> <p>(CHOICE BASED CREDIT SYSTEM – (CBCS)</p> <p><b>Credits : 4</b></p>
<p><b>COURSE OUTCOMES:</b></p> <ol style="list-style-type: none"> <li>1. Students will understand the features and problems of rural economy and will be able to find out the solutions to these problems.</li> <li>2. Students will be equipped with proper knowledge, abilities and skills of cooperative credit system</li> <li>3. Students will be enabled to learn the functions and mechanism of rural cooperative financial and agro based institutions.</li> <li>4. Students will be informed with the infrastructural potential for development in rural economy.</li> </ol>

<b>UNIT -1</b>	<p><b>Rural Development in India.</b></p> <p>1.1 Nature and features of Rural Economy.</p> <p>1.2 Problems of Rural Economy- Population and Poverty</p> <p>1.3 Problems of Rural Economy - Indebtedness, Unemployment and Migration.</p> <p>1.4 Government Policy towards rural development.</p>	15
<b>UNIT -2</b>	<p><b>Credit Co-operatives and Rural Economy</b></p> <p>2.1 Credit Co-operatives in India.</p> <p>2.2 Short term Agricultural Co-operatives</p> <p>2.3 Long term Agricultural Co-operatives.</p> <p>2.4 Khurso and Baidynathan Committee Recommendations.</p>	15
<b>UNIT -3</b>	<p><b>Agriculture Co-operatives and Rural Development</b></p> <p>3.1 Functions and Problems of Agriculture Co-operatives.</p> <p>3.2 Co –Operative Marketing.</p> <p>3.3 Co- operative Processing.</p> <p>3.4 Co-operative Farming.</p>	15
<b>UNIT 4</b>	<p><b>Infrastructure in Rural Economy</b></p> <p>4.1 Rural Health.</p> <p>4.2 Rural Electrification</p> <p>4.3 Rural Roads and Transport</p> <p>4.4 Information and Communication Technology</p>	15
<p><b>References –</b></p> <ol style="list-style-type: none"> <li>1. 1 Bedi R. D. “Theory History and Practice of Co-operation in Foreign Countries”.</li> <li>2. 2.Dr. R.C. Dwidwidi (1997). “C-Operative Identity, Concept and Reality”, M/S</li> <li>3. Govt. of Maharashtra Co-operative Movement at Glance.</li> <li>4. 3.Hajela T. N. (2007). “Co-operation Principles Problems and Practice of Co-operation”, New Delhi.</li> <li>5. 4.Jugale, V. B., Koli, P. A., “Reasserting the Co-operative Movement”, Serials</li> <li>6. Kamat, G. S., “New Dimensions in Cooperatives”, Himalaya Publishing House</li> <li>7. Mathur B.S. (1999), “Cooperation In India”, Sahitya Bhavan Publications, Agra</li> </ol>		



8. Paramount Publishing House, New Delhi
9. 7.Patil, J. F. & Patil, V. S., “Problems and Prospects of Co-operative Movement”, Publications, New Delhi, (2005)
10. 8.Ramkishan.Y (2003), “Management of Cooperatives” Jaico Publishing House, Mumbai
11. 9.Report of High Powered Committee on Cooperatives (2009). Report).
12. 10. Shivaji University, Kolhapur (2006).

### **Equivalence of the papers**

Existing Title of the Paper	Revised Title of the Paper

Distribution of Marks: 100 Marks

Internal Work: 20 Marks

Theory Paper: 80 Marks

Nature of Question Paper for paper I and II

Total Marks: 80      Duration: 3 Three clock hours

Instructions: 1) Que.1 and 2 are compulsory

2) Attempt any three questions from Que. no 3 to 6

Q.1 Case Study	16
Q.2 Short answer type question (Any two out of three)	16
Q.3 Long question	16
Q.4 Long question	16
Q.5 Long question	16
Q. 6 Write Short Notes (Any two out of three)	16

<p align="center"><b>Paper III : DSE – H - III : Co –operation and Rural Development</b></p> <p align="center">(Rural Management)</p> <p align="center">(CHOICE BASED CREDIT SYSTEM – (CBCS))</p> <p align="center"><b>Credits : 4</b></p>		
<p><b>COURSE OUTCOMES:</b></p> <p>1. Awareness about co-operation at local, national and global level will be created among the students.</p> <p>2 Students will equip with the importance of cooperative sector in development of agricultural sector,</p> <p>3 Students will enable to get the knowledge of farm management in changing dimensions of rural economy.</p> <p>4 Students will understand the rural marketing at rural level.</p>		
<b>UNIT -1</b>	<p><b>Rural Management – Principles and Practices</b></p> <p>1.1 Concept, Scope and need of rural management</p> <p>1.2 Principles and Functions of rural management</p> <p>1.3 Challenges before Rural Management</p> <p>1.4 NGOs and Rural Management</p>	15
<b>UNIT -2</b>	<p><b>Agricultural Development and Management</b></p> <p>2.1 Present Scenario of Indian Agriculture</p> <p>2.2 Impact of Green Revolution</p> <p>2.3. Impact of Globalization on Indian Agriculture</p> <p>2.4 Food Security</p>	15
<b>UNIT -3</b>	<p><b>Farm Management</b></p> <p>3.1 Concept and Types of Farm Management</p> <p>3.2 Principles of Farm Management</p> <p>3.3 Farm Planning and Budgeting in view of Risk and Uncertainty</p> <p>3.4 Farm Income and Farm balance sheet</p>	15
<b>UNIT -4</b>	<p><b>Rural Marketing</b></p> <p>4.1 Meaning and Scope of Rural markets, growth</p> <p>4.2 Rural marketing Mix Pricing – Packaging needs</p> <p>4.3 Rural market Segmentations, region wise, Targeting and Positioning</p>	15

	Products  4.4 Problems of rural marketing – measures for effective rural marketing	
<p><b>References –</b></p> <ol style="list-style-type: none"> <li>1. Rural development Principles Policies And Management Katar Singh Sage Texts</li> <li>2. Agri Business and Rural Management Prof. M.S. swaminathan Mittal Publication</li> <li>3. Rural Management K.B. Gupta, Faizia Siddiqui , Iftikhar Alam CBS Publication</li> </ol>		

### Equivalence of the paper

Existing Title of the Paper	Revised Title of the Paper

<b>Paper IV : DSE – H - IV : Co –operation and Rural Development</b>		
<b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours

b) Practical	(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test. (c) Report writing according to objectives and hypothesis. [Use any suitable software for the purpose of (a) and (b)]																									
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## Paper I : DSE – I – I : Marketing Management (Principles of Marketing)

### Titles of Courses

M.Com. – I/ Sem. – I	Paper -I- Principles of Marketing
	Paper- II – Consumer Behaviour
M.Com. – I/ Sem. - II	Paper – III – Sales and Distribution Management
	Paper- IV- Research Methodology
M.Com. – II/ Sem. - III	Paper – V – Advertising and Brand Management
	Paper – VI- Project Report
M.Com. – II/ Sem. – IV	Paper – VII – Rural Marketing
	Paper – VIII – Contemporary issues in Marketing

## Paper – I : DSE – I – I : Marketing Management (Principles of Marketing)

Course Outcomes:

1. Describe different basic concepts of marketing management
2. Differentiate between different basic concepts of marketing management.
3. Explain the relevance of STP and Marketing Mix.

Units	Name of the unit	No. of lectures
Unit 1	<p><b>Basics of Marketing:</b> Introduction to marketing–Nature and scope of marketing, the core concepts of marketing, Company orientation towards market place , marketing environment: Micro and Macro marketing environment, Marketing Planning and Marketing Planning process, Differentiation between Sales and Marketing, Introduction to Services Marketing</p> <p><i>Practical -Undertake group discussion on need, want and demand. Discussion around statements Needs pre-exist market – marketer creates the needs. Submit the discussion report. If possible record the discussion and hoist on college web site.</i></p>	15
Unit 2	<p><b>Market segmentation</b> – Meaning and concept, benefits of segmentation, Bases for market segmentation – consumer goods market segmentation; industrial goods market segmentation, Market targeting - Selection of segments, Product positioning.</p> <p><i>Practical -Select any product and study its Segmentation, Targeting, Differentiation and Positioning. Submit a report.</i></p>	15
Unit 3	<p><b>Product &amp; Pricing Strategy</b></p> <p>A. Product decision and strategies – Meaning of product, Types of products, levels of product, product mix decisions, Product life cycle concept, new product development, Branding and packaging decisions – Concept of Branding and packaging, advantages and disadvantages of branding and packaging, features and functions of packaging.</p> <p>B.Pricing decision – Pricing objectives, pricing methods, factors influencing pricing decision, setting the price, price determination policies.</p> <p><i>Practical -Online exercise: Visit any website of organization marketing its FMCG products and study the different elements related to products. Submit a report.</i></p>	15

Unit 4	<p><b>A. Marketing communication</b> – promotion mix- Advertising, personal selling, sales promotion and publicity, Marketing communication mix decisions: characteristics, factors and measurement. Advertising and publicity – 5 M’s of advertising. Personal selling – nature and process. Sales promotion – nature, importance and techniques.</p> <p><b>B. Distribution</b> - Importance of channels of distribution, Alternative channel of distribution, channel design decision and channel management decision.</p> <p><i>Practical -a. Select any organization and study its distribution system.</i></p> <p><i>b] Select any newly launched product and design a promotional campaign and present it in the class.</i></p>	15
	<p>Reference Books:</p> <ol style="list-style-type: none"> <li>1. Marketing Management – a south Asian perspective: Kotler Phillip, Keller Kevin Lane, Koshy Abraham and Jha Mithileshwar, Pearson.</li> <li>2. Marketing Management – Ramswamy V. S., Namakumari S., Macmillan Publishers India Ltd.</li> <li>3. Marketing Management – Rajan Saxena, Tata McGraw Hill</li> <li>4. Marketing Management: Text and Cases – Tapan Panda, Excel Books</li> <li>5. Marketing – Etzel, Walker B., Stanton W., Pandit A., Tata McGraw Hill</li> <li>6. Marketing Management - Karunakarn K — Himalaya Publication, New Delhi.</li> </ol>	



**Paper – II : DSE – I – II : Marketing Management  
(Consumer Behaviour)**

**Course Outcome:**

- Reproduce the concepts of consumer behavior
- Summarize the data behavioral data collected from samples.
- Construct the data collection instrument
- Analyze the conclude the data

Units	Name of the unit	No. of lectures
<b>Unit 1</b>	<p>a. <b>Introduction to consumer Behavior</b> – Diversity of consumer behavior – Concept and need for studying consumer behavior and marketing management, factors influencing consumer buying behaviour, consumer buying process.</p> <p>b. <b>Consumer Modeling:-</b> The economic model – Learning model- psychoanalytic model – The sociological model- The Howard Sheth model of buying behavior – The Nicosia model- The Engel –Kollat-Blackwell Model.</p> <p><i><b>Practical-</b> Take the interview of 10 chief wage earners of family who have recently purchased any white goods viz. television, electronic gadgets, washing machine, mixer, refrigerator and the like. Understand their buying process in detail. Understand what factors influences them while taking buying decisions. How many people have influences the buying decision. Write a detailed report and submit.</i></p>	15
<b>Unit 2</b>	<p><b>Individual Determinants of Consumer behavior-</b></p> <p><b>A) Perception,</b> Meaning of perception- the perceptual process- Factor responsible for perceptual Distortion,. Learning –what is Learning?- components or elements of learning process.</p> <p><b>B) Personality-</b> Meaning and Nature- Characteristics of Personality- Stages in the development of personality, personality influences and consumer behavior –self-concept or self-image. Attitude and behavior- The concept of Attitude-Relationship between Attitude and behavior- Factors involved in Attitude formation- Motivation- What is Motivation? Needs And goals- The Dynamic Characteristic of Motivation.</p> <p><i><b>Practical -</b>Narrate your own experience regarding recent purchase of any high involvement product at your home or of your neighbourer or relative and understand the role played by individual determinants while making purchase decisions. While selecting the product, brand, model, distributor and the like.</i></p>	15
<b>Unit 3</b>	<p>a. <b>Influence of Social class</b> –Definition and meaning of social stratification –factors responsible for social stratification – characteristic features of social classes- Social influence on consumer behavior.</p> <p>b. <b>Group Dynamics and Consumer Reference Groups-</b> Definition and Meaning of Group- Reasons For formation of group –Types of</p>	15

	<p>Groups relevant to consumer behavior – Family life cycle- Friendship Group Formal social clubs-Shopping Friends groups- Work group-Reference group</p> <p><b>Practical</b> -Understand the concept of family life cycle. Interview the sample families nearby and ask chief wage earner regarding their buying preferences at different life cycles.</p>	
<b>Unit 4</b>	<p><b>Industrial \ Organizational Buying Behavior</b> – Participants in Industrial marketing- Buying decisions involved in industrial buying process- Factors influencing industrial buying behavior – Stages of Industrial buying process.</p> <p><b>Practical</b> -Visit industrial unit or service unit nearby viz. banks, insurance company and the like. These units purchase their requirements. Study their buying process in detail, prepare a report in a flow chart type with detailed description below the chart and submit.</p>	15
<p><b>Reference Books:</b></p> <ol style="list-style-type: none"> <li>1. Consumer Behaviour – Schiffman and Kanuk , Pearson Publication</li> <li>2. Consumer Behaviour – David L. Loudon and Albert J. Della Bitta. , Tata McGraw-Hill.</li> <li>3. Consumer Behavior in Indian Perspective – Sujua R. Nair Himalaya Publishing House (Reference this book for in depth study of the subject in a practical persepctive).</li> <li>4. Marketing Management- William Stanton.</li> <li>5. Marketing Management- Philip Kotlar.</li> </ol>		

**Paper – III : DSE – I – III –Marketing Management  
(Sales & Distribution Management)**

**Course Outcome:**

1. Describe the concepts of sales and distribution management
2. Estimate sales by using sales forecasting methods.
3. Design sales meeting agenda and sales contests.
4. Design personal selling strategies

Units	Name of the unit	No. of lectures
<b>Unit 1</b>	<p><b>Sales Management</b> – Evolution, Definition, sales management functions, place &amp; importance of sales management in the organization. Sales forecasting – Meaning, Importance, Types of forecasting, Forecasting methods and procedure, Importance, merits &amp; demerits of various methods. Sales related marketing policies</p> <p><i>Practical</i> Select a business organization nearby and study their sales management system and policies. Also understand from them the way of forecasting sales.</p>	15
<b>Unit 2</b>	<p><b>Sales Force Management</b> –Determining size of sales force, Determining kind of sales personnel, Controlling sales personnel, evaluating and supervising , Sales Meeting &amp; Sales Contests, Sales Quota, sales Territory, Sales control and cost analysis – The sales audit, sales analysis, marketing cost analysis</p> <p><i>Practical-</i> In the same organization study sales force management, sales meetings, sales contests. Study sales control analysis in the organization. Study sales personnel reporting system. Collect formats of different reports.</p> <p><i>OR</i> Prepare a seminar on sales force management and present before the class.</p>	15
<b>Unit 3</b>	<p><b>Personal Selling</b> –Importance of personal selling, Formulation of personal selling strategy, Personal selling objectives, Personnel selling situations, Personal Selling Process, Characteristics of good sales person, Selling skills.</p> <p><i>Practical-</i>Make a field visit along with sales people of dealer/distributor and study personal selling process in details.</p>	15
<b>Unit 4</b>	<p><b>Logistics &amp; Supply Chain Management</b> - Definition &amp; scope of logistics, key logistics activities, market logistics decision, emerging concepts in logistics. Concept of supply chain management, need for SCM, advances in SCM. Distribution: 6 C's of distribution. Selection and appointing distributors.</p>	15

	<i><b>Practical-</b> Study the logistic and supply chain management of the company the dealer is working for. Prepare report and share in the class.</i>	
<b>Reference Books:</b> <ol style="list-style-type: none"><li>1. Sales Management: Decision, Strategies and Cases- R.R.Still , E.W.Cundiff , N.A.P.Govani, Pearson Education</li><li>2. Sales and Distribution Management – K.K. Havaldar, V.M. Cavale, Tata McGraw Hill Company</li><li>3. Professional Sales Management -Anderson, Hair and Bush, McGraw Hill Company</li><li>4. Effective Salesmanship – Richard T. Hise</li><li>5. Sales Management – RustomDavar</li><li>6. Marketing Management- Kotler, Keller, Koshy, Jha, Prentice Hall.</li><li>7. Marketing Management - Ramaswamy,Namakumari, McGraw Hill Education</li></ol>		

<b>Paper – IV : DSE – I – IV –Marketing Management</b>		
<b>(Research Methodology)</b>		
Course Outcomes	5. Familiarity with basics of research. 6. Designing research protocol for research problem. 7. Preparation of the instrument for data collection. 8. Ability of analysis and interpretation of data.	
Expected Skills Impartation(Through theory and Practical's)	5. Identifying and selecting research problem, 6. Preparing research design. 7. Preparing questionnaire/schedule and collecting data. 8. Analyzing and interpreting data and writing research report.	
Marks : 80		Total 60 Hours
Syllabus Contents:		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	(a) Identification of research problem. (b) Classification of research problem according to types. (c) Formulation of research questions and objectives.	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	(a) Preparation of Research Design. (b) Formulation of Hypothesis. (c) Selection of appropriate sampling design.	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	(a) Preparation of questionnaire (b) Preparation of interview schedule/observation schedule	

	(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)  (d) Classification of data and tabulation.	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test.  (c) Report writing according to objectives and hypothesis.  [Use any suitable software for the purpose of (a) and (b)]	
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books:		
8. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi 9. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi 10. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher 11. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi. 12. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi 13. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House. 14. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi		
Suggested Additional Readings:		
3) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd. 4) Kishore, Ravi M. (2018). Business Statistics,		
Suggested Research Journal :		
8) Indian Journal of Commerce 9) Indian Journal of Accounting 10) Indian Journal of Marketing 11) Management Accountant 12) Vikalp 13) Decision 14) IIMB Review		

Shivaji University, Kolhapur

Nature of Question Paper for

M.Com. (CBCS)

Marks: 80 Duration: 3 hours.

Instructions:

7. Question number 1, 2 and 3 are compulsory
8. Attempt any two questions from question number 4 to 6.

Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Case Study/Problem	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question/practical problem	(16)
Q.5 Long answer question/practical problem	(16)
Q. 6. a. Short answer question/ problem	(8)
b. Short answer question/ Problem	(8)

**M.Com Part I&II (C.B.C.S.)****SMALL BUSINESS AND ENTREPRENEURSHIP MANAGEMENT**

<i>Semester</i>	<i>Paper</i>	<i>Nomenclature of Course</i>
Semester I	Paper I	Principles of Entrepreneurship Management
	Paper II	Management of Small Business
Semester II	Paper III	Practice of Entrepreneurship Management
	Paper IV	Research Methodology
Semester III	Paper V	Management of Small Enterprises
	Paper VI	Project Report
Semester IV	Paper VII	Project Management for Small Enterprises
	Paper VIII	Recent Trends in Small Business and Entrepreneurship Management



**Paper I : DSE – J- I : SMALL BUSINESS AND ENTREPRENEURSHIP  
MANAGEMENT**

**Course Objectives:**

1. To acquaint students with theoretical aspects of Entrepreneurship
2. To create an Entrepreneurial spirit among students
3. To analyse the Entrepreneurial Development Programmes

<i>Unit</i>	<i>Contents</i>	<i>Hours</i>
<b>Unit 1</b>	<p><b>Introduction to Entrepreneurship:</b></p> <p>Concept of Entrepreneurship, Enterprise and Entrepreneurship- Difference between Entrepreneur, Entrepreneur and Manager- Types of entrepreneurs, Functions of Entrepreneurs. Concept and characteristics of Net-preneurs. Entrepreneurial competencies.</p> <p><i>Practical: Visit any nearest organization and interview the Entrepreneur.</i></p>	<b>15</b>
<b>Unit 2</b>	<p><b>Entrepreneurship Theories and Process:</b></p> <p>Theories of Entrepreneurship-Joseph Schumpeter's Theory of Innovation, David McClelland's Need for Achievement Theory, Hagen's Theory of Status Withdrawal, Knight's Risk Taking Theory, John Kunkel's Theory, Max Weber's Theory of Social Change, Hoselitz's Theory, Theory of Frank Young, Cochoran's Theory, Leibenstein's Theory, Peter Drucker's views on Entrepreneurship</p> <p>Entrepreneurship Process- Discovery, Developing a business plan, Resourcing, Managing Company and Harvesting.</p> <p><i>Practical: Find and Apply any one theory of Entrepreneurship to your local business enterprise.</i></p>	<b>15</b>
<b>Unit 3</b>	<p><b>Entrepreneurship Development Programmes (EDP):</b></p> <p>Concept, need and objectives of Entrepreneurship Development Programmes (EDP)-Phases of EDP. Evaluation of Entrepreneurship Development Programmes in India- Features and functioning of Make in India, Start-up India, Stand-up India.</p> <p><i>Practical: Take survey of EDP in nearest industrial estate and check the outcome of the Entrepreneurship development programme.</i></p>	<b>15</b>
<b>Unit 4</b>	<p><b>Institutional Support to Entrepreneurship:</b></p>	<b>15</b>

	<p>Need of institutional support. Entrepreneurship Development Institute of India (EDII), National Institute for Entrepreneurship and Small Business Development (NIESBUD), National Institute for Small Industries and Extension Training (NISIET), National Small Industries Corporation (NSIC), Technical Consultancy Organisation (TCO), Small Industrial Development Bank of India (SIDBI), Maharashtra Centre for Entrepreneurship Development (MCED), District Industrial Centre (DIC), their organizational role and workings.</p> <p><i>Practical: Visit any supporting institution and record its functioning.</i></p>	
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## Paper II : DSE – J- II : SMALL BUSINESS AND ENTREPRENEURSHIP MANAGEMENT

### *Course Objectives:*

1. To understand the nature and functioning of family business and small enterprises.
2. To acquaint students with the Micro, Small and Medium enterprises Development Act, 2006.
3. To understand the location, ownership form and financing of Small enterprises.

<i>Unit</i>	<i>Contents</i>	<i>Hours</i>
<b>Unit 1</b>	<p><b>Family Business:</b> Meaning, types, Advantages and disadvantages Family business in India. Challenges faced by family business, Remedies for making family business more effective.</p> <p><i>Practical: Visit nearest family business unit and enlist its problems and suggest remedies for its growth.</i></p>	<b>15</b>
<b>Unit 2</b>	<p><b>Micro, Small and Medium Enterprises (MSME):</b> Small Industry Policy in India- Main provisions of MSME Act 2006. Small and medium enterprises in Japan, China, South Korea.</p> <p><i>Practical: Prepare a poster on Small Industry Policy in India.</i></p>	<b>15</b>
<b>Unit 3</b>	<p><b>Location and Ownership Issues:</b> Need, Importance, steps in enterprise location- Selection of ownership pattern- Individual, Corporate and Cooperative ownership- Legal issues involved in formation of small enterprise.</p> <p><i>Practical: Conduct field study for assessment of Location and Ownership Pattern of your nearest small business unit.</i></p>	<b>15</b>
<b>Unit 4</b>	<p><b>Financial Management:</b> Financial plan, Sources of finance- owned finance, bank finance and state finance. Working capital management in small enterprises-</p>	<b>15</b>

	Role of MUDRA bank. Financial problems of MSME. <i>Practical: Visit nearest small enterprise and find out its financial problems.</i>	
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**Paper III : DSE – J- III : SMALL BUSINESS AND ENTREPRENEURSHIP  
MANAGEMENT**

**Course Objectives:**

1. To understand the roll of women Entrepreneurship in economic development.
2. To analyse the challenges and opportunities in tourism, rural and agricultural Entrepreneurship.
3. To prepare entrepreneurial mind by studying the stories of leading entrepreneurs at national and international level.

<b>Unit</b>	<b>Contents</b>	<b>Hours</b>
<b>Unit 1</b>	<b>Women Entrepreneurship:</b> Concept, Role of women Entrepreneurship in economic development, Women Entrepreneurship in India, Causes of slow growth of women Entrepreneurship in India. Measures for rapid development. <i>Practical: Visit any woman entrepreneur and evaluate her performance through interview.</i>	<b>15</b>
<b>Unit 2</b>	<b>Tourism Entrepreneurship:</b> Meaning and features tourism entrepreneurs. Policy measures for development of tourism Entrepreneurship in India. <i>Practical: Prepare a list of problems and opportunities of development of tourism places in your area.</i>	<b>15</b>
<b>Unit 3</b>	<b>Rural Entrepreneurship:</b> Meaning and need, Rural Entrepreneurship in India, NGO's and Rural Entrepreneurship, Problems of rural Entrepreneurship, Measures for rural Entrepreneurship development. <i>Agri-prenuership</i> -concept and characterises, need for developing agri-prenuership in India, opportunities and challenges in developing agri-prenuership and suggestion for future development. <i>Practical: Visit any rural/agri enterprise in your area and write a report on its problems and prospects.</i>	<b>15</b>
<b>Unit 4</b>	<b>Success Stories of Leading Entrepreneurs:</b>  Bill Gates, Jack Ma, Walt Disney, Mark Zuberbarg, Ratan Tata, Kiran Mujumdar. <i>Practical: Visit any local Entrepreneur and draw his/her entrepreneurial sketch.</i>	<b>15</b>

**Reference books:**

1. Dynamics of Entrepreneurial Development and Management- Vasant Desai, Himalaya Publishing House.

2. Entrepreneurial Development in India – Dr. C. B. Gupta & Dr. N. P. Srinivasan, Sultan Chand & Sons, New Delhi.
3. Entrepreneurship Development: Dr. S. S. Khanka, S. Chand & Company Ltd.
4. Entrepreneurship Development & Management: Jose Paul & N. Ajit Kumar, Himalaya Publishing House.
5. Developing Entrepreneurship: Uday Pareek & T. V. Rao.
6. Management of small scale industries: Vasant Desai.
7. Management of Small Scale Industries: R. R. Khan.
8. Entrepreneurship Development: E. Gordon & K. Natrajan, Himalaya Publishing House.
9. Project Management- Vasant Desai, Himalaya Publishing House.
10. Sickness in Small Scale Industry- Reddy & Reddy.
11. How to Succeed In Small Scale Industry – Ram K. Vepa
12. Innovation and Entrepreneurship: Peter Drucker
13. Entrepreneurship Development: Monika Loss and F. L. Basunan, Global Academic Publisher and Distributor
14. Entrepreneurship and Evidence Based Guide, Robert A. Baron, Edward Elgar Publishers
15. Entrepreneurship, Rajeev Roy, Oxford
16. Entrepreneurship Development, P.Subba Rao and K. Hanumantha Rao, Paramount Publishing House

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<b>Paper IV : DSE – J- IV : SMALL BUSINESS AND ENTREPRENEURSHIP MANAGEMENT</b>		
<b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods.	15 Hours

	(Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.																									
b) Practical	(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test. (c) Report writing according to objectives and hypothesis. [Use any suitable software for the purpose of (a) and (b)]																									
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.																									
<p>Reference Books:</p> <ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>																										
<p>Suggested Additional Readings:</p> <ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>																										
<p>Suggested Research Journal :</p> <ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>																										
<p style="text-align: center;">Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours. Instructions:</p> <ol style="list-style-type: none"> <li>9. Question number 1, 2 and 3 are compulsory</li> <li>10. Attempt any two questions from question number 4 to 6.</li> </ol> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 40px;">Q. 1 a. Choose the appropriate alternative</td> <td style="text-align: right; padding-right: 20px;">(10)</td> <td></td> </tr> <tr> <td style="padding-left: 60px;">b. True or false</td> <td></td> <td style="text-align: right;">(6)</td> </tr> <tr> <td>Q.2 Case Study/Problem</td> <td></td> <td style="text-align: right;">(16)</td> </tr> <tr> <td>Q.3 Short Notes (any 4 out of 6)</td> <td></td> <td style="text-align: right;">(16)</td> </tr> <tr> <td>Q.4 Long answer question/practical problem</td> <td style="text-align: right;">(16)</td> <td></td> </tr> <tr> <td>Q.5 Long answer question/practical problem</td> <td style="text-align: right;">(16)</td> <td></td> </tr> <tr> <td>Q. 6. a. Short answer question/ problem</td> <td style="text-align: right;">(8)</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">b. Short answer question/ Problem</td> <td style="text-align: right;">(8)</td> <td></td> </tr> </table>			Q. 1 a. Choose the appropriate alternative	(10)		b. True or false		(6)	Q.2 Case Study/Problem		(16)	Q.3 Short Notes (any 4 out of 6)		(16)	Q.4 Long answer question/practical problem	(16)		Q.5 Long answer question/practical problem	(16)		Q. 6. a. Short answer question/ problem	(8)		b. Short answer question/ Problem	(8)	
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**Master of Commerce****Paper: Retail Management****Proposed Titles of Courses**

M.Com. – I/ Sem. – I	Paper -I- Principles of Retail Management
	Paper- II – Retail Store Management
M.Com. – I/ Sem. - II	Paper – III – Retail Marketing
	Paper- IV- Research Methodology
M.Com. – II/ Sem. - III	Paper – V – Retail SCM and Logistics Management
	Paper – VI- Project Report
M.Com. – II/ Sem. – IV	Paper – VII – Retail Strategy
	Paper – VIII – Recent Trends in Retail Management

### Paper I : DSE – L – I : Retail Management

Course Outcomes:	<ol style="list-style-type: none"> <li>1. Understand Retailing</li> <li>2. Illustrate retail formats and retail environment</li> <li>3. Interpret Indian and global retailing</li> </ol>	
Unit 1 :	<p><b>Introduction to Retail</b> – Meaning and Definition, Characteristics of retailing, Evolution of retailing in India, Role and functions of retailer, Retailing principles, Reasons for retail growth, Retailing Environment</p> <p><i>Practical: Select any one organized retailer and study its evolution and growth</i></p>	15 Hours
Unit 2 :	<p><b>Formats in Retail</b> – Theories of retail development, Concept of life cycle in retail, Store based retail formats, Non store based retail formats, Other emerging retail formats</p> <p><i>Practical: Study the different formats of retail organizations in your region.</i></p>	15 Hours
Unit 3 :	<p>Economic Significance of Retailing – Economies of scale, Economies of experience and scope, Retailing Management Decision Process, Product Retailing vs. Service Retailing</p> <p><i>Practical: Select any retail organisation and study its retail environment</i></p>	15 Hours
Unit 4 :	<p>Retail in India – Traditional business models in Indian retail, Size of retail in India, Drivers of retail change, Key sectors in Indian retail. Retail in key regions of the world- Retailing in US, Europe, Asia-Pacific. Indian vs. Global Scenario in retailing.</p> <p><b>Practical:</b> Study the growth of any one global retailer.</p>	15 Hours
Reference Books	<ol style="list-style-type: none"> <li>1. Swapna Pradhan – Retailing Management: Text and Cases, Tata McGraw Hill Education Pvt. Ltd.</li> <li>2. Harjit Singh – Retail Management: A Global Perspective, S. Chand and Company Ltd.</li> <li>3. Roger Cox, Paul Brittain – Retailing: An Introduction, Pearson Education Ltd.</li> <li>4. Gibsol G. Vedamani – (2017) ‘Retail Management’ , Pearson Education Ltd.</li> <li>5. Michael Levy &amp; Others –(2008) ‘Retailing Management’ , Tata McGraw Hill Education</li> </ol>	



	<p>6. Kuldeep Singh (2014) 'Retail Management in New Dimension', Global Vision House</p> <p>7. Pareshkumar M. Thakor (2012) 'Commerce &amp; Retail Management', Createspace Independent Publishing Platform</p>	
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### Paper II : DSE – L – II : Retail Store Management

Course Outcomes:	<ol style="list-style-type: none"> <li>1. Understand Retail operations</li> <li>2. Analyse different element of store design</li> <li>3. Knowledge about private labels</li> </ol>	
Unit 1 :	<p><b>Retail Store Operations</b> – Concept, Components of retail store operations, Management of retail outlet, 5 S's of retail operations, Role of store manager, Store maintenance, Store security</p> <p><i>Practical: Visit any one retail outlet and study its store operations</i></p>	15 Hours
Unit 2 :	<p><b>Store Design and Visual Merchandising</b> – Principles of store design, Elements of store design, Visual Merchandising, Planning Merchandise assortment, Presenting merchandise</p> <p><i>Practical : Visit any retail store and study their visual merchandise.</i></p>	15 Hours
Unit 3 :	<p><b>Merchandise Planning</b> – Concept, types, process of merchandise planning, Merchandise sourcing, Retail pricing strategy, Concept and need of private label, Process of private label creation</p> <p><i>Practical : Study the different private labels offered by any one retailer</i></p>	15 Hours
Unit 4 :	<p><b>Human resource management in retail</b> – Significance of HRM in retail, HR functions in retailing, Creating organisation structures, Organisation structures in retail</p> <p><i>Practical: Analyse the job description of the vacancies in the retail organisations</i></p>	15 Hours
Reference Books	<ol style="list-style-type: none"> <li>1. Swapna Pradhan – Retailing Management: Text and Cases, Tata McGraw Hill Education Pvt. Ltd.</li> <li>2. Harjit Singh – Retail Management: A Global Perspective, S. Chand and Company Ltd.</li> <li>3. Gibsol G. Vedamani – (2017) 'Retail Management' , Pearson</li> </ol>	

	<p>Education</p> <ol style="list-style-type: none"><li>4. Michael Levy &amp; Others –(2008) ‘Retailing Management’ , Tata McGraw Hill Education</li><li>5. Kuldeep Singh (2014) ‘Retail Management in New Dimension’, Global Vision House</li><li>6. Pareshkumar M. Thakor (2012) ‘Commerce &amp; Retail Management’ , Createspace Independent Publishing Platform</li></ol>	
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### Paper III : DSE – L – III : – Retail Marketing

Course Outcomes:	<ol style="list-style-type: none"> <li>1. Understand Retail Marketing</li> <li>2. Evaluate STP in retailing</li> <li>3. Analyse Communication mix</li> </ol>	
Unit 1 :	<p><b>Role of marketing in retail</b>, Retail marketing mix, Retail marketing environment, Consumer behaviour – Need and factors influencing the retail shopper, Customer decision making process</p> <p><i>Practical: Conduct a survey to study customer decision making process.</i></p>	15 Hours
Unit 2 :	<p><b>The Retail Market Segmentation</b>, Targeting and Positioning: Introduction, Importance of Market, Segmentation in Retail, Targeted Marketing Efforts, Criteria for Effective Segmentation, Dimensions of Segmentation, Positioning Decisions , Limitations of Market Segmentation</p> <p><i>Practical :Study the STP of an organized retailer</i></p>	15 Hours
Unit 3 :	<p><b>Integrated Marketing Communication in Retail-</b> Introduction, Understanding Integrated Marketing Communication, Elements of Communication Process, Communication Plan - Integrated marketing process, Tools of IMC, Upcoming tools of IMC</p> <p><i>Practical :Study communication mix of a retail store located in your region.</i></p>	15 Hours
Unit 4 :	<p><b>Customer Relationship Management in Retailing-</b> Introduction, Benefits of relationship marketing, Management of relationship, Principles of CRM, Customer relationship management strategies, Components of CRM, Customer service in retailing, CRM and Loyalty program</p> <p><i>Practical :Study CRM strategies of an organised retailer</i></p>	15 Hours
Reference Books	<ol style="list-style-type: none"> <li>1. Swapna Pradhan – Retailing Management: Text and Cases, Tata McGraw Hill Education Pvt. Ltd.</li> <li>2. Harjit Singh – Retail Management: A Global Perspective, S. Chand and Company Ltd.</li> <li>3. Retail Marketing Management – David Gilbert, Pearson Education Ltd.</li> <li>4. Gibsol G. Vedamani – (2017) ‘Retail Management’ , Pearson</li> </ol>	

	<p>Education Ltd.</p> <p>5. Michael Levy &amp; Others –(2008) ‘Retailing Management’ , Tata McGraw Hill Education</p> <p>6. Kuldeep Singh (2014) ‘Retail Management in New Dimension’, Global Vision House</p> <p>7. Pareshkumar M. Thakor (2012) ‘Commerce &amp; Retail Management’ , Createspace Independent Publishing Platform</p>	
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<b>Paper IV : DSE – L – IV : – Retail Marketing</b>		
<b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical’s)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
Syllabus Contents:		
Unit 1: a) Theory	<p><b>Basics of Research:</b></p> <p>Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.</p>	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	<p>Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.</p>	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> </ol>	

	(c) Selection of appropriate sampling design.	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	(a) Preparation of questionnaire (b) Preparation of interview schedule/observation schedule (c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.) (d) Classification of data and tabulation.	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test. (c) Report writing according to objectives and hypothesis. [Use any suitable software for the purpose of (a) and (b)]	
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books:		
<ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
Suggested Additional Readings:		
<ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		

## Suggested Research Journal :

- 1) Indian Journal of Commerce
- 2) Indian Journal of Accounting
- 3) Indian Journal of Marketing
- 4) Management Accountant
- 5) Vikalp
- 6) Decision
- 7) IIMB Review

Shivaji University, Kolhapur

Nature of Question Paper for

M.Com. (CBCS)

Marks: 80 Duration: 3 hours.

## Instructions:

1. Question number 1, 2 and 3 are compulsory
2. Attempt any two questions from question number 4 to 6.

Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Case Study/Problem	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question/practical problem	(16)
Q.5 Long answer question/practical problem	(16)
Q. 6. a. Short answer question/ problem	(8)
b. Short answer question/ Problem	(8)

## **International Business**

### **Name of the Courses and Structure**

#### **M.Com. Part I, Semester I**

Paper I	Principles of International Business
Paper II	Practice of International Business

#### **M.Com. Part I, Semester II**

Paper III	International Strategic Management
Paper IV	Research Methodology

#### **M.Com. Part II, Semester III**

Paper V	India's Foreign Trade
Paper VI	Project Work

#### **M.Com. Part II, Semester IV**

Paper VII	Foreign Exchange Management
Paper VIII	Recent Trends in International Business

## Paper I : DSE – M – I : International Business

Course Outcomes:

1. To understand the elements of international business
2. To analyse the business environment and its relation with globalisation
3. To identify the theories of international trade and their applicability in present situation
4. To know the international economic associations and study their role in international business

Unit	Contents :	No. of Hours
I	<p><b>Introduction to International Business :</b>            Concept, Nature, Scope and Principles of International Business, Elements of International Business, Methods of entry in International Business, Impact of Globalisation on International Business</p> <p><i>Practical: Visit any business organisation and study impact of globalisation on it</i></p>	15
II	<p><b>International Business Environment:</b>            Cultural, Political, Social, Legal, Technological, Economic and Demographic Environment and their implication on International Business Environment, SWOT analysis of International Business Environment and its techniques, Environmental Constraints in International Business</p> <p><i>Practical : Visit any business organisation and conduct its SWOT analysis</i></p>	15
III	<p><b>Theories of International Trade:</b>            Theories of International trade- mercantilism, Absolute advantage, Comparative advantage, Heckscher- Ohlin, Product life cycle theory and Porter’s diamond model.</p> <p><i>Practical : Apply anyone of the theories mentioned above on any one business unit.</i></p>	15
IV	<p><b>WTO, Economic Cooperation and Contemporary International Business:</b>            Organisation of WTO, Objectives and Functions of WTO; Contribution of WTO in International Business, Co-operation and Integration between Countries; Different levels of integration between Countries; European Union, NAFTA, ASEAN, EFTA, SAARC, SAPTA</p> <p><i>Practical : Write an assignment on any one of the associations mentioned above in the development of International Business</i></p>	15



## Paper II : DSE – M – II : International Business

### Course Outcomes:

1. To know the various practices of international trade
2. To analyse the EXIM policy with reference to export promotion
3. To understand the documentation and processes in international business
4. To get an insight of financing and logistics management in international business

nit	Contents :	No. of Hours
I	<p><b>EXIM Policy :</b> EXIM Policy (2015-2020), Legal Framework, General Provisions regarding Import and Export, Export from India, Duty Exemption, Export Promotion, Export Oriented Units, Deemed Exports, Quality Complaints and Trade Disputes</p> <p><i>Practical: Write an assignment on India's EXIM Policy 2015-2020 with reference to Export Promotion</i></p>	15
II	<p><b>Documentation of Export and Import:</b> Licensing, IEC, Import without IEC, Proforma Invoice, Packing List, Airway Bill, Shipping Bill, Delivery Terms and Payment Terms, Ordering and Final Inspection, Bill of Landing, Certificate of Origin, CE Certificate, Freight Insurance Certificate</p> <p><i>Practical : Visit any business organisation engaged in import/export business and take the interview of the concerned person</i></p>	15
III	<p><b>Financing of International Business:</b> EXIM Bank, Foreign Direct Investment in India, Role of International Financing Institutions in International Business : International Monetary Fund, International Bank Reconstruction and Development, International Finance Corporation, International Development Association, Asian Development Bank, United Nations Conference on Trade And Development; Working Capital Management and Capital Budgeting of International Business, Globalisation and Financial Deregulation,</p> <p><i>Practical : Prepare Poster Presentation on any one of the International Financing Institution</i></p>	15
IV	<p><b>International Supply Chain and Logistics Management:</b> Supply Chain: Definition – scope and importance of supply chain – supply chain drivers and metrics - efficient and responsive supply chain - Designing supply chain network: Distribution network – Factors influencing distribution - Transportation decision in supply chain management Logistics Management: Concepts – Importance – Elements of the logistic System – Marketing and logistic mix – Logistics and marketing interface – Value-chain and production efficiency.</p> <p><i>Practical : Conduct Group Discussion on Supply Chain and Logistics Management</i></p>	15

### Paper III : DSE – M – III :International Business

#### Course Outcomes:

1. To understand the concept of international strategic management
2. To analyse the dimensions of international strategic management
3. To identify the corporate strategies and their relevance in international business
4. To evaluate different models of strategy implementation and its role in international business

Unit	Contents :	No. of Hours
I	<p><b>Introduction to International Strategic Management :</b>            Concept and Characteristics of Strategic Management – Emergence of International Strategic Management (ISM) – Logic and process of Internationalization – Forces necessitating the adoption of ISM concept by MNC’s as well as Indian Companies – Corporate global strategy  <i>Practical: Write an assignment on Corporate Global Strategy</i></p>	15
II	<p><b>Dimensions of International Strategic Management :</b>            Nature, components and significance of environmental scanning – Corporate capability analysis –Diagnosing industry globalization potential – Building global market participation – Competition in global industries  <i>Practical: Write a strategy for a Multinational Enterprise in order to beat the international competition by making suitable assumptions</i></p>	15
III	<p><b>Setting corporate objectives in MNC’s</b>            Multicultural Issues and Strategies, Managing Diversity, External and internal forces interacting with corporate objectives – Identifying strategic alternatives – Stability strategy – Growth and diversification strategy – Merger , acquisitions and retrenchment  <i>Practical: Write/Develop a Case Study on Managing Diversity by MNC.</i></p>	15
IV	<p><b>Choice of Corporate Strategy :</b>            CIT, CASCADE and PORTFOLIO MODELS – Formulating generic competitive strategy – Implementing corporate strategy – Strategic control and operational control, Core Competencies, Balanced Score Card and Value Chain Analysis  <i>Practical: Visit any business organisation and write a report on its strategy.</i></p>	15

#### Reference Books:

1. Azhar Kazmi, Business Policy, Tata McGraw-Hill Publishing Co Ltd, New Delhi,
2. Srivastava, Management Policy and Strategic Management, Himalaya Publishing Co.
3. Porter.M, Competitive Strategy Techniques for Analyzing Industries and competitors, The Free Press, New York.
4. Thompson and Strickland, Strategic Management – Concepts and Cases, Tata McGraw Hill,
5. Jeevanandam C “Foreign Exchange : Practices Concepts and control” Sultan Chand Publications, 2002.
6. Donald J Bowersox Davi J Class” Logistics Management, Tata Mc.Graw Hill,New Delhi.
7. David Stewart ,”International Supply chain Management”, Cengage publications,2008.
8. Reji Ismail,“Logistics Management” Excel Books, 2008.

9. Daniels, John, Ernest W. Ogram and Lee H. Redebungh: International Business, Environments and operations.
10. Lew, Julton D.M and Clive Stand brook (eds), International Trade Law and Practice, Euromoney Publications, London.
11. Schmothoff C.R: Export Trade – The Law and Practice of International Trade
12. Motiwal OP, Awasthi HIC: International Trade – the law and practice; Bhowmik and Company, New Delhi.
13. Kapoor ND: Commercial Law; Sultan Chand & Co., New Delhi.
14. Foreign Trade Policy: Hand book of Export Procedure and Annual of the Ministry of Commerce, Government of India.
15. Export and Import Manual, Nabhi Publications, New Delhi.
16. World Development Indicator, World Bank Publication

<b>Paper IV : DSE – M – IV :International Business (Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design-sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Analysis and interpretation of classified data by using statistical tools.</li> <li>(b) Testing of hypothesis by using appropriate test.</li> <li>(c) Report writing according to objectives and hypothesis.</li> </ol> [Use any suitable software for the purpose of (a) and (b)]	
Note:	Questions on theory as well as problems/case on each unit should be	

	asked in university examinations.	
Reference Books:		
<ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
Suggested Additional Readings:		
<ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>		
Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)		
Marks: 80 Duration: 3 hours.		
Instructions:		
<ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol>		
Q. 1 a. Choose the appropriate alternative	(10)	
b. True or false		(6)
Q.2 Case Study/Problem	(16)	
Q.3 Short Notes (any 4 out of 6)	(16)	
Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	

## M.Com. (CBCS)

## E-Commerce

## M.Com. Part I, Semester I

Paper I	Introduction to E-Commerce
Paper II	E-Commerce Infrastructure

## M.Com. Part I, Semester II

Paper III	Managing E-Commerce
Paper IV	Research Methodology

## M.Com. Part II, Semester III

Paper V	Functional Areas of E-Commerce
Paper VI	Project Work

## M.Com. Part II, Semester IV

Paper VII	Risk Management in E-Commerce
Paper VI	Recent Trends in E-Commerce

## Paper I : DSE – N – I : E-Commerce

Course Outcomes:

After studying this course, the students should be able:

1. To understand the basic concepts of E-Commerce
2. To get insight about internet and its role in E-Commerce
3. To understand the application of portals in E-Commerce
4. To know the E-Commerce infrastructure

Unit	Contents:	No. of Hours
I	<p><b>E-Commerce:</b> Introduction, Overview of E-Commerce, Scope, Activities and Goals of E-Commerce, E-Commerce Applications, Prospects of E-Commerce, Framework of E-Commerce, Growth of E-Commerce in India</p> <p><b>Practical:</b> Prepare the power point presentation on ‘Growth of E-Commerce in India</p>	15
II	<p><b>Internet and E-Commerce:</b> Evolution of internet, Components of internet world, Internet domain, Server, Establishing connectivity, Constituents of internet protocol, Types of internet providers, IP addressing, Overview of TCP/IP, Significance of internet in E-Commerce</p> <p><b>Practical:</b> Write and assignment on ‘Use of internet in E-Commerce’</p>	15
III	<p><b>Portals and E-Commerce:</b> Introduction to Portals, Difference between portal and website, Portal technologies, E-Commerce portals, B2B portals, Enterprise information portal, Payment gateways, Content management on the portals</p> <p><b>Practical:</b> Visit any online business organisation and understand the concept of portal.</p>	15
IV	<p><b>E-Commerce Revolution</b> E-Commerce opportunity framework, Developing and E-Commerce strategy, International E-Commerce, Information super highway, ERP vendors and E-Commerce</p> <p><b>Practical:</b> Arrange a group discussion on ‘E-Commerce Strategy’</p>	15
	<p>Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours.</p> <p>Instructions:</p> <ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol>	

Q. 1 a. Choose the appropriate alternative	(10)	
b. True or false	(6)	
Q.2 Case Study/Problem	(16)	
Q.3 Short Notes (any 4 out of 6)	(16)	
Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	
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## Paper II : DSE – N – II : E-Commrece

Course Outcomes:

After studying this course, the students shall be able:

1. To understand the concept of network infrastructure
2. To get insight about building own website
3. To understand the concept of e-commerce infrastructure
4. To know the concept of EDI and its significance in e-commerce

Unit	Contents :	No. of Hours
I	<p><b>Network Infrastructure</b>            Network infrastructure : Introduction, Overview of network infrastructure, Hierarchy of internet, Basic blocks of E-Commerce, Network layers and TCP/IP protocols, Advantages of internet in E-Commerce</p> <p><b>Practical:</b> Visit the office of an organisation providing internet or hardware services to know the infrastructure of E-Commerce</p>	15
II	<p><b>E-Commerce Infrastructure:</b>            E-Commerce infrastructure: Introduction, Hardware, Server, Software, Operating system, Technical components of E-Commerce,</p> <p><b>Practical:</b> Prepare power point presentation on ‘E-Commerce Infrastructure’</p>	15
III	<p><b>Building Own Website</b>            Own website : Significance, Reasons for having own website, Cost-time and reach, Registering domain name, web promotion, target mail, Internet-intranet and extranet</p> <p><b>Practical:</b> Visit the website of any online business organisation to understand the features and need for having own website</p>	15
IV	<p><b>Electronic Data Interchange</b>            Introduction, Features of EDI, History of EDI, Limitations of EDI, Applications of EDI, EDI model, Difficulties in implementing EDI, Financial EDI, EDI and internet</p> <p><b>Practical:</b> Arrange a group discussion on ‘Application of EDI in E-Commerce’</p>	15

<p>Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p>	
<p>Marks: 80 Duration: 3 hours.</p>	
<p>Instructions:</p>	
<p>1. Question number 1, 2 and 3 are compulsory</p>	
<p>2. Attempt any two questions from question number 4 to 6.</p>	
Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Case Study/Problem	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question/practical problem	(16)
Q.5 Long answer question/practical problem	(16)
Q. 6. a. Short answer question/ problem	(8)
b. Short answer question/ Problem	(8)
<p>*****</p>	

### Paper III : DSE – N – III : E-Commerce

Course Outcomes:

After studying this course, the students shall be able:

1. To demonstrate the management of e-commerce
2. To get insight about e-commerce and e-business models
3. To plan e-commerce strategies
4. To know the electronic payment system

Unit	Contents:	No. of Hours
I	<p><b>Management of E-Commerce:</b> Managing E-Commerce, Exploring E-Commerce, Prospects of E-Commerce, Dot com companies, Comparison between conventional business and e-business, Organisation of business in E-Commerce, Legal issues in E-Commerce, Problems on E-Commerce</p> <p><b>Practical:</b> Write an assignment on the 'Management of E-Commerce'</p>	15
II	<p><b>E-Commerce and E-Business:</b> E-Commerce applications, Difference between E-Commerce and E-Business, Models of business : C2C, G2G, B2G, B2P, P2P, B2A, C2A, B2B, B2C, E-distributor, Just in time delivery in e-business</p> <p><b>Practical:</b> Prepare a power point presentation on 'E-Business'</p>	15
III	<p><b>Planning for E-Commerce</b> Planning E-Commerce initiatives, linking objectives to business strategies, measuring cost objectives, comparing benefits to costs, Strategies for developing E-Commerce, Personalisation of E-Commerce</p> <p><b>Practical:</b> Write an assignment on strategies for developing E-Commerce.</p>	15
IV	<p><b>Electronic Payment System:</b> Introduction, Types of electronic payment system, Traditional v/s e-payments, Credit card, Electronic fund transfer, Electronic cash, Online payment, Smart card, Wallets, Apps, Prerequisite for electronic payment, Risk in electronic payment</p> <p><b>Practical :</b> Visit any bank and understand the procedure of electronic payment and risk associated with the same.</p>	15
	<p>Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)</p> <p>Marks: 80 Duration: 3 hours.</p> <p>Instructions:</p> <ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol>	

Q. 1 a. Choose the appropriate alternative	(10)	
b. True or false	(6)	
Q.2 Case Study/Problem	(16)	
Q.3 Short Notes (any 4 out of 6)	(16)	
Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	
*****		

**Reference Books:**

E-Commerce : C S V Murthy, Welingkar Institute of Management Development and Research

Electronic Commerce (From Vision to Fulfilment) : Elias M Awad, Prentice Hall India Publications

Evolution of E-Business : C Mackey, Darwin Publishers

Electronic Commerce : Schneider and Perry, Thompson Course Technology Publication

<b>Paper IV : DSE – N – IV : E-Commerce</b>		
<b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80		Total 60 Hours
<b>Syllabus Contents:</b>		
Unit 1: a) Theory	<b>Basics of Research:</b> Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Identification of research problem.</li> <li>(b) Classification of research problem according to types.</li> <li>(c) Formulation of research questions and objectives.</li> </ol>	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design-sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of Research Design.</li> <li>(b) Formulation of Hypothesis.</li> <li>(c) Selection of appropriate sampling design.</li> </ol>	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Preparation of questionnaire</li> <li>(b) Preparation of interview schedule/observation schedule</li> <li>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</li> <li>(d) Classification of data and tabulation.</li> </ol>	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	<ol style="list-style-type: none"> <li>(a) Analysis and interpretation of classified data by using statistical tools.</li> <li>(b) Testing of hypothesis by using appropriate test.</li> <li>(c) Report writing according to objectives and hypothesis.</li> </ol>	

	[Use any suitable software for the purpose of (a) and (b)]	
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books:		
<ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
Suggested Additional Readings:		
<ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		
Suggested Research Journal :		
<ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>		
Shivaji University, Kolhapur Nature of Question Paper for M.Com. (CBCS)		
Marks: 80 Duration: 3 hours.		
Instructions:		
<ol style="list-style-type: none"> <li>1. Question number 1, 2 and 3 are compulsory</li> <li>2. Attempt any two questions from question number 4 to 6.</li> </ol>		
Q. 1 a. Choose the appropriate alternative	(10)	
b. True or false		(6)
Q.2 Case Study/Problem		(16)
Q.3 Short Notes (any 4 out of 6)		(16)
Q.4 Long answer question/practical problem	(16)	
Q.5 Long answer question/practical problem	(16)	
Q. 6. a. Short answer question/ problem	(8)	
b. Short answer question/ Problem	(8)	

## **Paper I : DSE – P – I : BUSINESS ECONOMICS**

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 4

### **Course Outcomes :**

1. Students will be able to apply tools of consumer behavior.
2. Students will make use of forecasting technique for estimation of demand in business.
3. Students will be able to understand the concept of production function.

### **Unit I) Introduction to Business Economics (15-Periods)**

- 1.1 Meaning, Nature and Scope of Business Economics
- 1.2 Business Economics and Business Decisions
- 1.3 Features of Business Economics
- 1.4 Goals of Business Firm

### **Unit II) Theory of Consumer Choice (15-Periods)**

- 2.1 Assumptions and Defects of Cardinal Utility Approach
- 2.2 Consumer equilibrium under Indifference Curve Analysis
- 2.3 Revealed Preference Analysis of Consumer's Demand
- 2.4 Advancement in Demand Theory

### **Unit III) Demand Forecasting (15-Periods)**

- 3.1 Meaning and Importance of Demand Forecasting
- 3.2 Methods of Demand Forecasting
- 3.3 Statistical Methods of Demand Forecasting - Least Squares Method
- 3.4 Demand Estimation for Consumer Durable and Non-Durable Products

### **Unit IV) Theory of Production (15-Periods)**

- 4.1 Meaning and Features of Production Function
- 4.2 Short Run Production Function
- 4.3 Long Run Production Function

#### 4.4 Internal and External Economies and Diseconomies of Scale

##### References

- 1) Ahuja H.L., (1985), 'Advanced Economic Theory', S. Chand and Company Ltd, New Delhi
- 2) Anderson W.H., Putallaz, Shepherd (1986) 'Economics' Prentice Hall of India Ltd, New Delhi.
- 3) Barthwal R.R., (1991), Microeconomic Analysis, Wiley Eastern Ltd, New Delhi.
- 4) Bilas R.A, (1971), Micro Economic Theory, Mcgraw-Hill Kogakusha, Ltd. Tokyo.
- 5) Boulding K.E., (1969), Economic Analysis, Harper & Row, New Yark.
- 6) Chopra P.N. (1981), 'Advanced Economic Theory', Kalyani Publisher, New Delhi.
- 7) Chopra P.N., (1981),' Micro Economics' , Kalyani Publishers, New Delhi.
- 8) Dwivedi D.N. (1985), 'Principles of Economics', Vani Educational Books, New Delhi.
- 9) Lipsey R.G. Steiner P.O. (1969), 'Economics', Harper & Row, New York.
- 10) Misra S.K., Pari V.K. (1997), 'Business Economics' Himalaya Publishing House, New Delhi
- 11) Peterson. W.L., (1983), Micro, Principles of Economics Richard D.Irwin, Inc, Illinois.



## Paper II : DSE – P – II : BUSINESS ECONOMICS

(CHOICE BASED CREDIT SYSTEM – (CBCS))

Credits: 4

### Course outcomes

- 1 Students will enable in understanding the major concepts of micro economics relating to the behavior of individual, firm and markets.
- 2 Student will equip with the knowledge of price discrimination, market structure, theories of distribution and theories of factor pricing.
3. Students will get familiar with the analyses various models developed by different economists.

### **UNIT I      Price and Output Determination under Monopoly      15 Period**

- 1.1      Price & output determination under Discriminatory Monopoly
- 1.2      Price & output determination under Dumping
- 1.3      Price & output determination under monopsony
- 1.4      Price & output under bilateral monopsony

### **UNIT II      Oligopoly Market      Periods - 15**

- 2.1 Oligopoly – Cartel's - price leadership - kinked demand curve
- 2.2 Duopoly – Cournot's, Chamberlain's, Edgeworth, and Stacklberg models.
- 2.3 Sales maximisation model of Oligopoly
- 2.4 Theory of games and competitive strategy

### **UNIT III      Theories of Distribution      Periods - 15**

- 3.1 Marginal productivity theory
- 3.2 Factor pricing under perfect & imperfect competition
- 3.3 Euler's theorem
- 3.4 Product Exhaustion problem.

**UNIT IV****Theory of Factor Pricing****Periods - 15**

- 4.1 Rent – Ricardian Theory - Quasi Rent – modern theory of rent.
- 4.2 Wages : Subsistence Theory – Standard of living theory- wages fund theory – Marginal Productivity theory.
- 4.3 Interest : Classical Theory – Loanable Funds Theory – Liquidity Preference theory – modern theory.
- 4.4 Profit - Dynamic Theory – Innovation theory , Risk & uncertainty theory.

❖ **References :**

1. H.L. Ahuja (2006), Modern Microeconomics Theory & Application – S. Chand & Company Ltd, New Delhi
2. H.L. Ahuja (2008), Advanced Economic Theory – S. Chand & Company Ltd, New Delhi
3. K. K. Dewtt (2010), Modern Economic Theory – S. Chand & Company Ltd, New Delhi
4. M. L. Jhingan (1990), Micro Economic Theory – Vikas Publishing House Pvt Ltd
5. Misra & Puri (2001), Advanced Micro Economic Theory – Himalaya Publishing House New Delhi
6. M. John Kennedy (2012), Micro Economics – Himalaya Publishing House New Delhi.
7. Kreps, David M.(1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.
8. Koutsoyiannis, A. (1979), Modern Microeconomics (2<sup>nd</sup> Edition), Macmillan Press, London.
9. Sen, A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
10. Stigler, G. (1996), Theory of Price, (4<sup>th</sup> Edition), Prentice Hall of India, New Delhi.

**Paper III : DSE – P – III : BUSINESS ECONOMICS**

(CHOICE BASED CREDIT SYSTEM – (CBCS))

Credits: 4

**Course Outcomes:**

1. Students will be able to understand macro economic theories.
2. Students will be acquainted with theoretical part of economy.
3. Students will fully equip with the knowledge of Macro Economic Equilibrium, Trade Cycles and Inflation.

**Unit I) Macro Economics and Economic Equilibrium (15-Periods)**

- 1.1 Macro Economics and Business Decisions
- 1.2 Macro Economic Problems and Variables
- 1.3 Income and Employment Equilibrium
- 1.4 Shifts in Aggregate Demand.

**Unit II) Consumption and Investment Function (15-Periods)**

- 2.1 Consumption Function –APC, MPC and their Practical Significance
- 2.2 Friedman's Permanent Income Hypothesis
- 2.3 Investment Function –MEC and its Importance
- 2.4 Multiplier and its Practical Significance.

**Unit III) Business Cycles (15-Periods)**

- 3.1 Meaning, Causes and Control of Business Cycles
- 3.2 The Cobweb Theory
- 3.3 Samuelson-Hicks Theory of Trade Cycles
- 3.4 Goodwin's Theory of Trade Cycle

## **Unit IV) Inflation And Deflation (15-Periods)**

4.1 Meaning, Causes and Effects of Inflation

4.2 Theories of Inflation – Demand Pull Inflation and Cost – Push Inflation

4.3 Meaning, Causes and Effects of Deflation

4.4 Control of Deflation

### **References**

- 1) Dewett K.K., Chand A., (1984) ‘Modern Economic Theory’, Shyamlal Charitable Trust, New Delhi.
- 2) Gupta K,R, (1970), Macro Economics, Atam Ram & Sons, Delhi.
- 3) Hajela T, N. (1977) ‘ Micro Economics An Introduction’ Shivalal Agarwala & Company, Agra.
- 4) Harvey J. and Johnson M. (1977), Introduction to Micro Economics’, The Macmillan Press Ltd, London.
- 5) Korliras P., Thorn R., C (1979) ‘Modern Macro Economics’ Harper & Row, Publishers, New York.
- 6) Mehta J.K., (1975), Elements of Economic Analysis, The Macmillan Company of India Ltd, Delhi.
- 7) Mithani D.M. (2009), Managerial Economics, Himalaya Publishing House, New Delhi.
- 8) Sundharam K.P.M Vaish M.C., (1984) ‘Principles of Economics’, Ratan Prakashan Mandir, Delhi.
- 9) Surrey M.J.C., (1976), ‘ Macro Economic Themes, Oxford University Press, London
- 10) Vaish . M.C, (1993), Macro - Economics Theory, Wiley Eastern Limited, New Delhi.

<b>Paper IV : DSE – P – IV : BUSINESS ECONOMICS</b>		
<b>(Research Methodology)</b>		
Course Outcomes	<ol style="list-style-type: none"> <li>1. Familiarity with basics of research.</li> <li>2. Designing research protocol for research problem.</li> <li>3. Preparation of the instrument for data collection.</li> <li>4. Ability of analysis and interpretation of data.</li> </ol>	
Expected Skills Impartation(Through theory and Practical's)	<ol style="list-style-type: none"> <li>1. Identifying and selecting research problem,</li> <li>2. Preparing research design.</li> <li>3. Preparing questionnaire/schedule and collecting data.</li> <li>4. Analyzing and interpreting data and writing research report.</li> </ol>	
Marks : 80	Total 60 Hours	
Syllabus Contents:		
Unit 1: a) Theory	<b>Basics of Research:</b>  Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical		
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical		
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical		

	<p>(b) Preparation of interview schedule/observation schedule</p> <p>(c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.)</p> <p>(d) Classification of data and tabulation.</p>	
Unit 4: a) Theory	<p>Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.</p>	15 Hours
b) Practical	<p>(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test.</p> <p>(c) Report writing according to objectives and hypothesis.</p> <p>[Use any suitable software for the purpose of (a) and (b)]</p>	
Note:	<p>Questions on theory as well as problems/case on each unit should be asked in university examinations.</p>	
<p>Reference Books:</p> <ol style="list-style-type: none"> <li>1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi</li> <li>2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi</li> <li>3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher</li> <li>4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of Indian Pvt. Ltd., New Delhi.</li> <li>5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi</li> <li>6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi</li> </ol>		
<p>Suggested Additional Readings:</p> <ol style="list-style-type: none"> <li>1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd.</li> <li>2) Kishore, Ravi M. (2018). Business Statistics,</li> </ol>		
<p>Suggested Research Journal :</p> <ol style="list-style-type: none"> <li>1) Indian Journal of Commerce</li> <li>2) Indian Journal of Accounting</li> <li>3) Indian Journal of Marketing</li> <li>4) Management Accountant</li> <li>5) Vikalp</li> <li>6) Decision</li> <li>7) IIMB Review</li> </ol>		

Shivaji University, Kolhapur

Nature of Question Paper for

M.Com. (CBCS)

Marks: 80 Duration: 3 hours.

Instructions:

1. Question number 1, 2 and 3 are compulsory
2. Attempt any two questions from question number 4 to 6.

Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Case Study/Problem	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question/practical problem	(16)
Q.5 Long answer question/practical problem	(16)
Q. 6. a. Short answer question/ problem	(8)
b. Short answer question/ Problem	(8)

**M.Com Part I&II (C.B.C.S.)**

**SECRETARIAL PRACTICE**

<b>Semester</b>	<b>Paper</b>	<b>Name of Course</b>
Semester I	Paper I	Introduction to Secretarial Practice
	Paper II	Secretarial Correspondence
Semester II	Paper III	The Companies Act and Secretarial Practice
	Paper IV	Research Methodology
Semester III	Paper V	Company Management
	Paper VI	Project Report
Semester IV	Paper VII	Company Meetings and Reports
	Paper VIII	Recent Trends in Secretarial Practice



**M.Com. Part-I (C.B.C.S.)**  
**Semester I (Paper I)**  
**SECRETARIAL PRACTICE**  
**(Introduction to Secretarial Practice)**

**Course Objectives:**

1. To create awareness among the students about secretariership and career prospects therein
2. To acquaint the students with the standards of secretarial profession
3. To familiarize the students with rights, duties and liabilities of company secretary

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
<b>Unit 1</b>	<p><b>Secretary:</b>  Meaning &amp; definition, Qualities of a good secretary, Importance of secretary, Need of secretary in commercial institutions, <b>Types of secretary:</b> Personal/ Private secretary, Company secretary, Secretary of co-operative society &amp; local bodies, Secretary in govt. departments. Duties &amp; functions of secretary, Role of secretary, Secretarial skills, Challenges before secretary  <i>Practical: Visit the nearby co-operative society/local body and enlist the functions performed by its secretary</i></p>	<b>15</b>
<b>Unit 2</b>	<p><b>Company Secretary:</b>  Definition, Qualification, Procedure of appointment, resignation and removal/dismissal of company secretary, Duties, rights &amp; liabilities of Company Secretary, Legal position of Company Secretary, Stages of becoming a Company Secretary, Relationship of company secretary with Chairman and Directors of a company, Role of company secretary as adviser to the Chairman &amp; Board of Directors  <i>Practical: Visit the nearest company in your area and enlist the duties and liabilities of its secretary</i></p>	<b>15</b>
<b>Unit 3</b>	<p><b>Secretarial Standards:</b>  Concept, scope and advantages, Secretarial Standards prescribed by the Institute of Company Secretaries of India (ICSI), Compliance of secretarial standards for good governance, Ethics in secretarial profession  <i>Practical: Prepare a poster on secretarial standards prescribed by ICSI</i></p>	<b>15</b>
<b>Unit 4</b>	<p><b>Company Secretary in Practice:</b>  Career prospects for company secretary, Provisions of Company Secretary Act, 1980 relating to practicing company secretary, Institute of Company Secretaries of India regulations relating to practicing company secretary, Key components of company secretary in practice, <b>Services rendered by company secretary in practice:</b> Professional Consultancy and Certification Services, Corporate Services and Management Consultancy Services  <i>Practical: Visit the office of practicing company secretary and enlist the services rendered by him/her</i></p>	<b>15</b>

**M.Com. Part-I (C.B.C.S.)  
Semester I (Paper II)  
SECRETARIAL PRACTICE  
(Secretarial Correspondence)**

**Course Objectives:**

1. To familiarize the students with secretarial correspondence
2. To develop the communication skill among the students
3. To acquaint the students with various reports and online filing of documents

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
<b>Unit 1</b>	<p><b>Secretarial Correspondence:</b> Meaning, Importance of Secretarial Correspondence, <b>Business Correspondence:</b> Characteristics of a good business letter, Layout of a business letter, Types of business letter, Internal &amp; external correspondence, <b>Corporate Correspondence:</b> Correspondence with Registrar of Companies, Department of Company Affairs, Company Law Board and other Government agencies. <i>Practical: Observe the correspondence of the nearest business unit and prepare the specimen of business letters</i></p>	<b>15</b>
<b>Unit 2</b>	<p><b>Correspondence with Stakeholders:</b> Meaning and types of stakeholders, Need &amp; instances of correspondence with shareholders, bankers, directors, employees, media &amp; public, Structural elements of press release <i>Practical: Collect the press releases of companies and prepare a report on their structural elements</i></p>	<b>15</b>
<b>Unit 3</b>	<p><b>Computers &amp; Communication:</b> Role of Computers in Communication, Advantages of limitation on use of computers for communication, Business uses of computer communication, <b>Internet, Intranet and Extranet:</b> Concepts and features, <b>Communication Networks:</b> Concepts and features of Local Area Networks (LAN), Metropolitan Area Network (MAN) Wide Area Networks (WAN), Electronic mail, Interactive video, Video conferencing, On-line information services, Electronic bulletin board systems, Emerging information technologies in new millennium <i>Practical: Prepare the concept map on LAN, MAN and WAN</i></p>	<b>15</b>
<b>Unit 4</b>	<p><b>Preparation of Reports:</b> Meaning of Report, Characteristics of a good report, Precautions to be taken in report writing, Preparation of Financial Statements, Auditors Report, Directors Report and Report on Corporate Governance, <b>E-forms and online filing of documents:</b> Filling of annual accounts, compliance certificate and annual return <i>Practical: Collect the financial statements, various reports and e-forms used by companies and analyze their contents</i></p>	<b>15</b>

**M.Com. Part-I (C.B.C.S.)**  
**Semester II (Paper III)**  
**SECRETARIAL PRACTICE**  
**(The Companies Act and Secretarial Practice)**

**Course Objectives:**

1. To acquaint the students with the important provisions of The Companies Act, 2013
2. To familiarize the students with the memorandum and articles of association and prospectus
3. To acquaint the students with the procedure of alteration in memorandum and articles of association

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
<b>Unit 1</b>	<p><b>The Companies Act, 2013:</b>  Key highlights of The Companies Act, 2013, Definition and characteristics of company, Kinds of companies, <b>New concepts introduced by Companies Act- 2013:</b> One Person Company, Associate Company , Dormant Company, Women Directors, Corporate Social Responsibility (CSR), Rotation of Auditors, Secretarial Audit  <b>Practical:</b> Visit the nearest company and prepare a report on its social responsibility activities</p>	<b>15</b>
<b>Unit 2</b>	<p><b>Company Registration:</b>  Promoters and their legal position, Procedure of incorporation of company, Procedure of formation and on-line registration of company, <b>Memorandum of Association, Articles of Association and Prospectus:</b> Meaning and Contents, Red-herring prospectus, Misstatement in prospectus  <b>Practical:</b> Visit the nearest share-broking firm to collect the prospectus issued by various companies and prepare the comparative chart of their contents</p>	<b>15</b>
<b>Unit 3</b>	<p><b>Alteration of Memorandum and Articles of Association:</b>  Importance of Memorandum and Articles of Association, Doctrine of Constructive Notice and Indoor Management, Procedure of alteration of Memorandum of Association, Procedure of alteration of Articles of Association  <b>Practical:</b> Prepare the posters on procedure of alteration of memorandum and articles of association</p>	<b>15</b>
<b>Unit 4</b>	<p><b>Membership of Company:</b>  Definition, Modes of acquiring membership, Restriction on membership, Rights and privileges of members, Termination of membership  <b>Practical:</b> Prepare the poster on rights and privileges of members of a public limited company</p>	<b>15</b>

**M.Com. Part-I (C.B.C.S.)  
Semester II (Paper IV)  
SECRETARIAL PRACTICE  
(Research Methodology)**

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
<b>Unit 1</b>		<b>15</b>
<b>Unit 2</b>		<b>15</b>
<b>Unit 3</b>		<b>15</b>
<b>Unit 4</b>		<b>15</b>

**List of Reference Books:**

1. 'Secretarial Practice,' M.C., Kuchhal, Vikas Publishing House, Bombay
2. 'Company Secretarial Practice,' S.A. Sherekar, Kitab Mahal Delhi
3. 'Text-Book of Company Secretarial Practice,' P.K. Ghosh, Sultan Chand and Sons, New Delhi
4. 'Manual of Secretarial Practice' B.N. Tandon, S. Chand & Company, New Delhi
5. Journal on 'Student Company Secretary'—ICSI Publication
6. 'Pitman's Business Correspondence,' Geoffery Whitehead, David H. Whitehead, Wheeler Publishing, Allahabad
7. 'Taxman's Business Communication,' K.K. Sinha
8. 'Communication through Letters and Reports,' H. Menning, Illinois Richard D. Irwin
9. 'Business Communication,' U.S. Rai & S.M. Rai, Himalaya publishing House, Mumbai
10. 'Commercial Correspondence,' P.K. Ghosh and Y.K. Bhusha
11. 'Effective Business Communication,' Asha Kaul, Second Edition
12. 'Company Law and Secretarial Practice', Nafees Baig, Sterling Pulishers, Delhi
13. 'Company Law', N.D. Kapoor, Sultan Chand & Sons, New Delhi
14. 'Introduction to Company Law', Avtar Singh, Eastern Book Company
15. 'A Guide to Companies Act', Ramaiya, LexixNexis, Wadhwa and Buttersworth



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA  
 PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)  
 FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094  
 शिवाजी विद्यापीठ, कोल्हापूर – 416004.  
 दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)  
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref../SU/BOS/Com & Mgmt./

Date : 04/07/2020

Outward No. : No 1580

To,

The Principal  
 All Affiliated (Commerce & Management) College/Institutions,  
 Shivaji University, Kolhapur

**Subject : Regarding syllabi and equivalence of M. Com. Part-II (Sem. III & IV)  
 Choice Based Credit System (CBCS) degree programme under the  
 Faculty of Commerce & Management.**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of M. Com. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi shall be implemented from the academic year 2020-2021. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2020 & March / April, 2021. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be imlemented from the academic year 2021-2022.

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

**Encl : As above**

**Copy to,**

I/c Dean, Faculty of Commerce & Management	Chairperson, BOS under Faculty of Commerce & Management
Director, BOEE	Dy.R Examination
Appointment Section	O.E. 1 Section
P. G. Admission Section	Computer Center/I.T.
Eligibility Section	Distance Education
P.G. Seminer Section	Affiliation Section (U.G./P.G.)



Estd. 1962  
NAAC 'A' Grade

SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Science/6755

Date: 03 /07/2019

To,

The Head/Co-ordinator/Director  
All Concerned Department (Science)  
Shivaji University, Kolhapur.

**Subject:** Regarding syllabi, equivalence of M. Sc. Part-I (Sem. I & II (CBCS) and Horizontal Mobility Rules, Regulations degree programme under the Faculty of Science and Technology.

**Sir/Madam,**

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of M. Sc. Part-I (Sem. I & II) (CBCS) Horizontal Mobility Rules, Regulations degree programme under the Faculty of Science and Technology.

M.Sc.-I (Sem. I & II) (CBCS)			
1.	Agro Chemical and Pest Management (AGPM)		
M.Sc.-I (Sem. I & II) (CBCS) Horizontal Mobility			
1.	Biochemistry	4.	Microbiology
2.	Biotechnology	5.	Pharmaceutical Microbiology
3.	Enviromental Biotechnology		

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2019 & March/April 2020. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Science and Technology	8	P.G.Seminar Section
2	Director, Board of Examinations and Evaluation	9	Computer Centre
3	The Chairman, Respective Board of Studies	10	Affiliation Section (U.G.)
4	B.Sc. Exam	11	Affiliation Section (P.G.)
5	Eligibility Section	12	P.G.Admission Section
6	O.E. I Section	13	Centre for Distance Education
7	Appointment Section		

# SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

**Faculty of Science and Technology**

**Syllabus For**

**M. Sc. Part – I (Sem I & II)**

**Agrochemical and Pest Management (AGPM)**

**(To be implemented from June 2019 onwards)**



**M.Sc. Programme structure (CBCS PATTERN) (2019-20)**  
**M.Sc. Part – I**

<b>SEMESTER-I (Duration- Six Month)</b>											
	Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
			Theory and Practical			University Assessment (UA)			Internal Assessment (IA) and Practical		
			Lectures (Per week)	Hours (Per week)	Credit	Maximum Marks	Minimum Marks	Exam. Hours	Maximum Marks	Minimum Marks	Exam. Hours
<b>CGPA</b>	1	CC-101- CHEMISTRY OF PESTICIDES AND THEIR FORMULATIONS – I	4	4	4	80	32	3	20	8	1
	2	CC-102- SOIL SCIENCE, FERTILIZERS AND MICRONUTRIENTS	4	4	4	80	32	3	20	8	1
	3	CC-103- INTRODUCTORY AND INDUSTRIAL ENTOMOLOGY	4	4	4	80	32	3	20	8	1
	4	CC-104- BASIC CONCEPTS IN PLANT PATHOLOGY	4	4	4	80	32	3	20	8	1
	5	CCPR-105-PRACTICALS	16	16	8	--	--	--	200	80	*
<b>Total (A)</b>			--	--	<b>24</b>	<b>320</b>	--	--	<b>280</b>	--	--
<b>Non-CGPA</b>	1	AEC	2	2	2	--	--	--	20	8	1
<b>SEMESTER-II (Duration- Six Month)</b>											
<b>CGPA</b>	1	CC-201- CHEMISTRY OF PESTICIDES AND THEIR FORMULATIONS – II	4	4	4	80	32	3	20	8	1
	2	CC-202- ANALYTICAL TECHNIQUES FOR AGROCHEMICALS	4	4	4	80	32	3	20	8	1
	3	CC-203- ECONOMIC ENTOMOLOGY	4	4	4	80	32	3	20	8	1
	4	CC-204- AGRONOMY, SEED TECHNOLOGY,	4	4	4	80	32	3	20	8	1



		PATHOLOGY,WEED SCIENCE AND BIOSTATISTICS									
	5	CCPR-205-PRACTICALS	16	16	8	--	--	--	200	80	*
<b>Total(B)</b>			--	--	<b>24</b>	<b>320</b>	--	--	<b>280</b>	--	--
<b>Non-CGPA</b>	1	SEC	2	2	2	--	--	--	20	8	1
<b>Total (A+B)</b>					<b>48</b>	<b>640</b>	--	--	<b>560</b>	--	--
<ul style="list-style-type: none"> <li>• Student contact hours per week : <b>32</b> Hours (Min.)</li> </ul>						<ul style="list-style-type: none"> <li>• Total Marks for M.Sc.-I : <b>1200</b></li> </ul>					
<ul style="list-style-type: none"> <li>• Theory and Practical Lectures : <b>60</b> Minutes Each</li> </ul>						<ul style="list-style-type: none"> <li>• Total Credits for M.Sc.-I (Semester I &amp; II) : <b>48</b></li> </ul>					
<ul style="list-style-type: none"> <li>• CC-Core Course</li> <li>• CCPR-Core Course Practical</li> <li>• AEC-Mandatory Non-CGPA compulsory Ability Enhancement Course</li> <li>• SEC- Mandatory Non-CGPA compulsory Skill Enhancement Course</li> </ul>						<ul style="list-style-type: none"> <li>• Practical Examination is annual.</li> <li>• Examination for CCPR-105 shall be based on Semester I Practicals.</li> <li>• Examination for CCPR-205 shall be based on Semester II Practicals.</li> <li>• *Duration of Practical Examination as per respective BOS guidelines</li> <li>• <b><i>Separate passing is mandatory for Theory, Internal and Practical Examination</i></b></li> </ul>					

# DEPARTMENT OF AGROCHEMICALS AND PEST MANAGEMENT

M. Sc. Part I (Semester –I)

## PAPER-I

### CHEMISTRY OF PESTICIDES AND THEIR FORMULATIONS – I

(CC-101)

#### Unit-I

**A. Chemistry of Pesticides:** Introduction: History of pesticides, Innovation in pesticide chemistry, Development of Pesticides. Chemical and Botanical pesticides, Classification of pesticides based on chemicals, nature, types of targets, Systemic and non-systemic Pesticides Following classes of pesticides are to be studied with respect to their Synthesis, Chemistry, Metabolites, Environmental fate, Formulations and Possible uses Insecticides, Herbicides, Fumigants, Rodenticides, etc. (15)

#### B. Recent advances in pest control

Recent insect attractants, Chemosterilants and Repellents, Applications of Neem in plant protection: Introduction, Chemical constituents and Mode of action, Bioefficacy of neem preparations.

#### Unit-II:

Classification and Study of following pesticides with respect to structure, Chemical name, Physical and chemical properties, Synthesis, Formulation, Degradation, Metabolism, Mode of action, Uses and Toxicity. (15)

**Organophosphates:** Malathion, Monocrotophos, Dimethoate, Phosphamidon Phosalone, Chloropyrifos, Fenitrothion, Phenthoate, Phorate, Quinolphos, Acephate, Ethephon, Temephos and Triazophos.

**Miscellaneous:** Fipronil, Buprofezin, Thiachloprid, Acetamiprid Imidachlorprid, Dicofol and 2,4-D

#### Unit-III:

##### Formulation

Introduction of pesticide formulations: Definition, History, Purpose, Types and Codes, Brief account of main types. Study of conventional formulations: Dusting, Powders/ Dust Formulations (DP), Granules (GR), Water Dispersible Powders/Wettable powders (WDP/WP), Soluble Concentrates (SC), Emulsifiable concentrates (EC), Ultra Low volume (ULV) with respect to their ingredients, advantages and disadvantages. (15)

#### Unit-IV:

**A) Formulation packaging:** Introduction, Current trends in single trip containers, Liquid Formulations: Rigid plastics, High Density Polyethylene, (HDPE), Polyethylene Terephthalate (PET), Ethylene Vinyl Alcohol (EVOH), and Polyamide (PA). Solid Formulations: Polyethylene, Laminates–Low Density Polyethylene (LDPE), Aluminum foil, LDPE plus ether, Polypropylene (PP), Polyester (PET), Polyamide (PA) Paper, Water soluble Films Paper on packaging material used to pack pesticides (technical and formulation) like Dust, EC, SC, WP, WDG). (10)

**B) Application of Pesticides and Devices used:** Dusters and sprayers, Types of nozzles. Calculation of amount of formulation required for field application. (05)

**Reference Books:**

1. N. N. Melnikov: Chemistry of Pesticides (English) Springer.
2. M. B. Green, G. S. Hartley, T. F. West, Chemical for Crop Improvement and Pest Management (Pergamon).
3. R. Clemlyn: Pesticides.
4. K. H. Buchel: Chemistry of Pesticides.
5. H. B. Scher: Advances in pesticides formulation Technology. ACS, NO.254.
6. J. Miyamamoto& P.C. Jearney : Pesticide Chemistry Vol. IV (Pergamon).
7. W. Valukenburg : Pesticide formulations (Dekker).
8. Chemistry of Insecticides by U. S. Sree Ramulu
9. Agrow Reports : New Developments in Crop Protection Product Formulation – Alan Knowles,DS243, Pub : T & F Informa UK, 2005.
10. CIPAC Hand Book Volume F Analysis of Technical and Formulated Pesticides Editors : W Dobrat A Martijn Pub : Collaborative International Pesticides Analytical Council Limited England 1994.
11. Pesticide Formulations: Van Wade. Velkenburg- Marcel & Delker, Published by Marcel Dekker, New York, ISBN 10: 0824716957 / ISBN 13: 9780824716950, 1973.
12. Pesticide Formulation: Theory: B. S. Parmar, S. S.Tomar, CBS Publishers and Distributors. (2008)

**PAPER-II**  
**SOIL SCIENCE, FERTILIZERS AND MICRONUTRIENTS**  
**(CC-102)**

**Unit- I**

**Soil Science** **(15)**

Importance of Soil formation, Properties and Composition of Soils, Soil profile, Organic matter in soil, Soil micronutrients, Acidic and Alkaline soils, Absorption of toxic metals and chemicals by soil, Effects of modern agro-technology and pesticides on soil, Nitrogen fixation and Soil Reclamation, Study on N, P, K and S transformations, Leaching, Run off, Absorption of water and ground water.

**Unit-II**

**Fertilizers** **(15)**

Classification and types of fertilizers, Essential fertility requirements:

**Nitrogenous fertilizers:** Ammonium nitrate, Urea, Calcium Cyanamide, Calcium Ammonium Nitrate, Sodium Nitrate, Ammonium Chloride: Introduction, Raw materials and Mode of action of the fertilizers.

**Phosphate fertilizers:** Normal super phosphate, Triple Super Phosphate, Ammonium Phosphate. Potassic fertilizers, Bricakating technology of fertilizers, Mixed fertilizers and positions of Fertilizer Industries in India.

**Unit-III** **(15)**

**A) Micro nutrients**

Definition, Types, Properties and Uses of micronutrients, Deficiency and Reclamation.

**B) Plant Growth regulators and hormones**

Auxins, Gibberellins, Kinins, Growth inhibitors and ethylenes, their responses, Metabolism assay and Agricultural uses.

Chemistry, synthesis and uses of the following Plant Growth Regulators: Ancymidol, Chloramequat chloride, Chlorpropham, Ethephon, IAA, IBA, Mepiquat, Naphthyl Acetic Acid (NAA). Plant growth modification dormancy and germination, Breeding and propagation, Retardation of vegetative growth, Flowering, fruit setting and development metabolic effects- Ripening, Yield increasing, Defoliation, Desiccation, Chemical pruning, Abscission and Photosynthesis.

**Unit-IV** **(15)**

**A) Manures**

Humus and decomposition of organic matter in soils, Compost, composting of agriculture and city wastes, Manures, Oil cakes, Role of Micro-organisms in the process. Types and Chemical properties of Manures. Application of Organic Manures, Soil fertility and Vermi-culture and Vermi-composting.

**B) Bio-fertilizers**

Biofertilizers- Introduction, definition, classification, *Rhizobium*, *Azotobactor*, *Azospirillum* , *Azolla*, *Blue Green Algae*, *VAM*.

**Reference Books:**

1. Bear : Chemistry of the soil (ACS Remhold)
2. M. B. Green, G. S. Hartley and T. F. West: Chemicals for crop improvement and pest management (Pergamon).
3. D. N. Shreve: The Chemical process Industries.
4. W. L. Badger and J. T. Bandhiro: Introduction to chemical Engineering (McGraw Hill).
5. A. M. Deshmukh: Biofertilizers
6. Gopal Rao: Outlines in Chemical Technology.
7. Shukla and Pandey: Introduction to Chemical Technology.
8. B. K. Sharma: Industrial Chemistry by B.K.Sharma.
9. Outline in Chemical Technology by Gopal Rao
10. Principles and procedure of plant protection - Chattopadhyay.
11. Chemistry weekly's - Agrochemical Dictionary.
12. Agrochemical handbook - Royal Society.
13. Handbook of Pest Management in Agriculture Vol. I, II -D.Pimentel.

**PAPER –III**  
**INTRODUCTORY AND INDUSTRIAL ENTOMOLOGY**  
**(CC-103)**

**Unit-I** (15)

**Introduction to Insects:**

General characters, General description and morphology of the Insect: Head, Thorax and Abdomen. Anatomy and Physiology of the Insect: Digestive system, Nervous system, Excretory system, Reproductive system and Circulatory system.

**Unit-II** (15)

Definition of Pest, Why Insects assume Pest status, Classification of Pests based on damage, Feeding habitat and Taxonomy etc. Economic Threshold Level, Economic Injury Level

**Unit-III** (15)

**General life cycle patterns of insect pests:** Grasshopper, Spodoptera, Aphid, Lepidopteran Borer, White grub, Red hairy caterpillar, Snails, Slug

**Insects of Industrial Importance:**

**Sericulture:** Mulberry cultivation and Rearing of Silkworms; Pest and Disease management of Mulberry and Silkworm, Economics of Sericulture

**Unit-IV** (15)

**Insects of Industrial Importance:**

**Apiculture:** Types of honey bees, Life cycle, Bee keeping equipments, Honey quality, Pest and disease management Agriculture and Non-Agricultural Flora and Bee keeping.

**Biocontrol:** Definition, Types of Biological control agents with examples, Entomopathogenic fungi, Successful Biological control programmes implemented in India, Merits and Demerits of biological control, biological control of weeds, Mass Production of

**Biocontrol agents:** Production of *Trichogramma*, *Cryptolaemusmontrouzieri*, *Chrysoperlacarnea*, Nuclear Polyhydrosis Virus(NPV).

**Reference Books:**

- 1 Agriculture pest of India and South East Asia by A. S. Atwal.
- 2 A textbook of applied entomology by K. P. Srivastava.
- 3 Entomology and pest management-Larry P. Pedigo.
- 4 Sericulture and pest management-DPH-Delhi by Sathe&Jadhav.
- 5 Agricultural Entomology by S. Pradhan.
- 6 Crop pests and How to fight them- Govt. Maharashtra.
- 7 Modern Entomology by D.B.Tembhere
- 8 Biological Pest suppression by R.D.Gautam, Westville Publishers, New Delhi
- 9 Insect Physiology and Biochemistry – James L.Natvov
- 10 Physiological systems in Insects – M.Klawdon
- 11 General and Applied Entomology – David & Anantha Krishnan, Mcgraw Hill
- 12 Integrated Pest Management – Concept and Approaches – Dhaliwal & Arora – Kalyani Publishers, New Delhi

**PAPER-IV**  
**BASIC CONCEPTS IN PLANT PATHOLOGY**  
**(CC-104)**

**Unit –I** **(15)**

Science of plant Pathology, Plant disease, Pathogen (Bacterial, viral, fungal, mycoplasmal, nematode) pathogenesis, symptoms and symptomology, identification of plant diseases (cause of plant diseases) survival of plant pathogen, dissemination of pathogen, epidemiology, diagnosis of diseases modern techniques of disease diagnosis–Immune logical assay and disease forecasting models.

**Unit –II** **(15)**

Virus as pathogen, characteristics, structure of plant viruses, symptoms of plant viral diseases, transmission of viruses, movement of viruses in plants. Sub-viral agents, Detection and diagnosis of plant viruses. Epidemiology of the plant, plant virus diseases. Disease management study of following viral disease. Banana bunchy top BBTV,

Bean common mosaic virus, Bhendi: Yellow vein mosaic virus BYVMV, Ring spot disease of Brinjal EMCV, Mung bean yellow mosaic Genliui virus (MYMV), Soybean mosaic Gemini Potyvirus SMV, Tobacco mosaic virus, Tobacco leaf curl Virus.

**Unit –III** **(15)**

Bacteria as pathogen: Structure of bacteria, Brief classification, Dissemination, Symptoms, and Management of plant bacterial diseases.

Study of following diseases: Angular leaf spot of cotton, Citrus canker, Bacterial leaf blight of Rice, Bacterial spot of Tomato, Black rot of crucifers, Bacterial blight of Beans, Leaf spot of Mango, Halo blight of Beans, Common scab of Potato.

**Unit –IV** **(15)**

Fungal pathogen - Symptoms of fungal disease and management of fungal diseases

Diseases of pulses:

Pigeon pea- Wilt, leaf spot, stem rot, Powdery mildew

Gram (*Pisum sativum*)-Powdery mildew, Rust, Downy mildew, Wilt, root rot

Green gram - Anthracnose, leaf spot, root rot, blight, powdery mildews

Cow pea (*Vigna sinensis*) - Powdery mildew, anthracnose, die back leaf spot

Soybean- leaf spot, rust, Brown spot, downy mildew, pod and collar rot

Diseases of oil seed crops:

Groundnut – leaf spot (early & late), rust, stem rot, collar rot, charcoal rot

Sesamum - Powdery mildew, leaf spot, blight, wilt

Castor- Rust, Seedling blight, pod rot, leaf spot

Sunflower- Rust, charcoal rot, Blight, sclerotiania wilt, headrot

Mustard- White rust, powdery mildew, blight, downy mildew

Diseases of Cash crops-

Cotton - Rust, wilt, leaf spot

Sugarcane- Rust, smut, GSD, rot, viral disease

Tobacco – Early blight, wilt

**Reference Book:**

1. Plant Pathology 5<sup>th</sup> Edition by G. N. Agrios
2. Chemical for crop improvement and pest management by M. B. Green.
3. Weed Biology and control by T. J. Musik (Mc Graw Hill)
4. Pathological problems of economic crop plant and their management by Paul and Khurana S. M., 1998.
5. Tropical plant diseases by Thurston H. D., 1993.
6. Fungi and plant diseases by Mundkar B. B., 1972.
7. Integrated diseases Management and plant health by Gupta V. K. & R.C.Sharam, 1988.
8. Principles of plant pathology by Tarr, S. A. J., 1972.
9. Plant diseases caused by fastidious Prokaryotes by Raychandhuri S. P. and Anupam varma, 1989.
10. Mycoplasma molecular biology and pathogenesis by Maniloffj, 1992.
11. Mycoplasma diseases by Marmorosch k., 1982/85.
12. Taxonomy of plant pathogenic bacteria in India, Indian Phythology 50(1): 153- 155
13. International standards on naming of pathogens of Phytopathogenic bacteria and their lists by Dye D. W. et. Al. 1980 Rev. Plant Pathology.59 153-163.



**SEMESTER-I**  
**PRACTICALS**  
**(CC-CCPR-105)**

**CHEMICAL SCIENCE: PRACTICAL-I**

1. To estimate amount of Copper from Copper Fungicide.
2. To estimate amount of sulfur from given Sulfur Fungicide.
3. Determination of amount of Nitrogen from given fertilizer sample.
4. Estimation of Calcium from superphosphate sample.
5. Determination of salinity of given soil sample by conductometrically.
6. Estimation of amount of phosphorous from given soil sample by colorimetrically.
7. Determination of concentration of sulphate ions from water by nephelometrically.
8. Estimation of nitro group by stannous chloride method.
9. Estimation of Simazine by colorimetric method.
10. Estimation of Ziram by hydrolysis method.
11. Analysis of organic manures.
  - A) Moisture content
  - B) Organic matter and ash content.
12. Determination of total sulphur in soil sample.
13. Determination of apparent specific gravity or bulk density, particle density or true density of the soil, water holding capacity of the soil.
14. Analysis of mixed fertilizers and micronutrients.
15. Submission of quality analysis of three inorganic and three Major nutrients N, P, K  
Any Suitable experiment may be added whenever necessary.

**Reference Books**

1. A Text Book of Qualitative Inorganic Analysis by A. I. Vogel.
2. Methods of Pesticide Analysis by Shree Ramulu.
3. Soil and Plant Analysis by C. S. Piper (Hans Publisher).
4. Analytical Agricultural Chemistry by Chopra and Kanwar.

## SEMISTER-I

### LIFE SCIENCE: PRACTICAL

(Collection and preservation of major pests and Botanical and Microbial practicals)

#### Entomology (Zoology):

1. Rearing of predator, *Cryptolaemusmontrouzieri*
  3. Rearing of *Helicoverpa armigera*, *Spodoptera litura*
  4. Rearing of silkworms
  5. Rearing of hairy caterpillars
  6. Release techniques of Parasitoids, Predators and NPV in field.
  7. Chemical and Cultural control of some crop pests in field.
  8. Visit to Apicultural center.
  9. Field visits for control trials of Agricultural Pests.
  10. Collection of various crop pests, identification and its submission.
- Any suitable experiment may be added, whenever necessary.

#### Plant Pathology (Botany)

1. Study of following viral diseases: Bean mosaic virus, Bendi yellow vein mosaic, Mungbean yellow mosaic, Gemini virus, Soybean mosaic poty virus, Tomato leaf curl virus, chili leaf curl, TMV.
2. Study of the following bacterial disease.  
Angular leaf spot of cotton, Citrus canker, and Bacterial leaf blight of Rice, Leaf spot of mango and Bacterial spot of tomato
3. Study of following fungal diseases (As mentioned in the theory oil seeds, Cash crops)
4. Determination of chlorophyll content under infection.
5. Estimation of polyphenol content under pathogenesis.
6. Measurement of electrical conductivity of soil.
7. Determination of N, P, K. in soil by volumetric/colorimetric methods.
8. Determination of reducing and non-reducing sugars under pathogenesis.
9. Determination of acid value of fats and oils.
10. Determination of vitamin C in fruits.

Any Suitable experiment may be added whenever necessary.

#### Reference Books

1. Introduction to Entomology by M. S. Mani.
2. A textbook of Entomology by A. D. Imm.
3. Agricultural pest of India and South East Asia by Atwal.
4. Agriculture Entomology by K. M. Smith.
5. A textbook of Applied Entomology by K. Shrivastava.
6. Plant Pathology 5<sup>th</sup> Edition by G. N. Agrios
7. Pathological problems of economic crop plant and their management by Paul and Khurana S. M., 1998.
8. Fungi and plant diseases by Mundkar B. B., 1972.
9. Soil and Plant Analysis by C. S. Piper (Hans Publisher).

# DEPARTMENT OF AGROCHEMICALS AND PEST MANAGEMENT

## M. Sc. Part I (Semester –II)

### PAPER-V

#### CHEMISTRY OF PESTICIDES AND THEIR FORMULATIONS-II

(CC-201)

#### UNIT-I :

**A) Carbamate Pesticides** (08)

Carbamates and Thiocarbamic acids, Oximecarbamates, Pendimethalin, Aldicarb, Primicarb, MBC, Zineb, Carbaryl and Carbofuran Isomeric model and kinetics, Synthesis, Mode of action, Structure - Activity relationship.

**B) Inorganic pesticides:** (07)

Fungicides: Sulphur, Copper salts, Organomercurials and Tin compounds. Fumigants: Hydrogen cyanide, Chloropicrin, Carbon disulphide. Rodenticide: Arsenic, Zinc oxides, Zinc phosphide and Thallium salts. Herbicides: Dalopan, Simazin.

#### UNIT II

 (15)

**Pyrethroids and Other Natural Pesticides**

Introduction, History, Synthesis of Alicyclic Carboxylic acids and derivatives, Pyrethrins and their synthetic analogues, Fenvalerate, Fluvalinate, Permethrin, Deltamethrin, Cypermethrin, Bio-allethrin, Resmethrin etc.

#### UNIT-III

**A) Important parameters of pesticides formulations :** (08)

Factors affecting quality of pesticides: Particle size, Bulk density, Flowability, Electrostatic charge, Sorptivity, Compatibility and their effects on the stability, rainfastness and shelf life of formulation, Rheological properties

**B) Tests for quality control** (07)

A brief introduction on specifications of pesticides: Technical and formulations (WHO/ FAO/BIS), Methods of analysis, Physical properties of formulations- Suspensibility, Wettability, Emulsion stability, Wet sieve test, Acidity, Alkalinity, Moisture content, Flash Point, Specific gravity, Persistent foaming, Water runoff test, Dry sieve test etc. and their significance during the field application.

#### UNIT-IV

**A) Controlled release pesticides fertilizers and their formulations** (07)

The applications of controlled release formulation, Role of surfactants, Dispersing agents, Stabilizer, Wetting agents in pesticide formulations, Analysis of pesticide formulations, Establishment of methods of Collaborative testing

**B) Formulations in seed treatment:** (08)

Brief study of Dry powder Seed Treatments (DS), Water Slurriable Powders (WS), Liquid Solution Seed Treatments (LS), Flowable Seed Treatments (FS), Emulsion Seed Treatments (ES), Microcapsule Seed Treatments (CF), Gel For seed Treatments (GF), Water dispersible Granules and Seed Treatments (WG).

## Reference Book:

1. N. N. Melnikov: Chemistry of pesticides (English) Springer.
2. R. Clemlyn: Pesticides.
3. M. B. Green, G. S. Hartley and T. F. West: Chemicals for crop Improvement and pest management (Pergamon).
4. N. B. Scher: Controlled releases Pesticides ACS Symp. No. 53.
5. N. E. Cardarelli: Controlled Released Pesticides Formulation CRC.
6. Kydonius: controlled release formulation. Technologies, CRC.
7. P. C. Keemey and D. D. Kaufman: Herbicide chemistry, degradation and mode of action. Vol.I& II (Dekker).
8. Chemicals in the environment by Miob and Satake.
9. Environmental chemistry by A. K. De.
10. Chemistry of insecticides and fungicides by SreeRamulu.
11. Botanicals and Biopesticides - Ed. B. S. Parmar and C. Devakumar, New Delhi Westvill Publishing House, 1993.
12. Pesticides – Ed. G.S. Dhaliwal and B. Singh.
13. Agrobases industries & pesticide formulations (Modern pesticides industry & their formulations) : S.B. Shrivastava & V.K.Agrawal – Small Business Pub.
14. Pesticide formulations & Agro based, chemical, food & paper product : R.K.Goel & R.K.Gupta - Small Business Pub
15. Pesticide formulation- recent development and their application in developing countries : WadeVan Valkenburg, B. Sugavanam, Sushil K. Khetan, UNIDO, Year : 1998 Edition : Ist Reprint : 2008.
16. Pesticide Formulation and Adjuvant Technology : Foy C. L. and Pritchard D. W. CRC Press (2008)

**PAPER-VI**  
**ANALYTICAL TECHNIQUES FOR AGROCHEMICALS**  
**(CC-202)**

**Unit-I**

**Separation techniques: (15)**

Sampling of solids, liquids and gases; Principle, Instrumentation and application of Thin layer chromatography, Paper chromatography, Column chromatography, Ion exchange and ion chromatography

**Unit-II**

**Non Instrumental Techniques: (15)**

Acid base titrations, acid-base indicators, Redox titrations, Determination of halide ions by Complexometric titration, Precipitation titrations, Methods of determination of Mg, Zn, Ca, Al, Cu, Metallochromic indicators, Gravimetric estimation of  $\text{SO}_4^{2-}$  and  $\text{Fe}^{3+}$ .

**Unit-III:**

**A) Potentiometry:** Introduction, Types of electrode, Instrumentation, Working and measurement of EMF, Applications for measurement of  $p^{\text{H}}$ , salinity of soil, halide and sulphate content of soil. (5)

**B) pH Metry:** Introduction, Instrumentation of pH Meter; glass electrode, reference electrode, Measurement of pH and its application in the pH soil and water sample. (5)

**C) Electrical conductivity:** Electrical conductivity of electrolyte, Conductivity meter, Specific and Equivalent conductance, Applications of conductivity measurement in the analysis of salinity and salt content of the soil (5)

**Unit-IV:**

**Flame Photometry and Atomic Absorption Spectroscopy:**

Flame Photometry: Principle, Instrumentation, Components, Emission measurement techniques, Atomization, Applications in the estimation of Na, K, Ca; (15)

Atomic Absorption Spectroscopy: Principle, Instrumentation, production of atoms, ions and their applications in the analysis of Soil, Water and Pesticides.

**Reference book:**

1. A text of Inorganic Quantitative analysis by A. I. Vogel.
2. Methods of pesticide analysis by Shree Ramulu.
3. A text book practical organic chemistry including qualitative and quantitative analysis by A. I. Vogel.
4. Instrumental methods of chemicals analysis by Willard, Meritt & Dean.
5. Analytical agricultural chemistry by Chopra & Kanwar.
6. Analysis of pesticide residues by H. A. Moye
7. Instrumental Methods of Chemical Analysis- Willard, Merrit and Dean.
8. Pesticide Analysis- K.G. Das.

**PAPER- VII**  
**ECONOMIC ENTOMOLOGY**

(Study of the major and minor pests. Biology, Nature of Damage and Control Measures)  
(CC-203)

**Unit-I** **(15)**

**A) Household pests:**

Major: Silverfish, Mosquito, Housefly, Bed bug and Rat. Minor: Cockroach.

**B) Stored grain pests:**

Major: Khapra beetle, Rice weevil, Rice moth, Pulse beetle and Rodent. Minor: Lesser grain borer, Indian meal moth, Saw-toothed beetle.

**C) Pests of medicinal plants:**

Major: Opium capsule borer, Hadda beetle, Mealy bug, Root knot nematode. Minor: Pentatomid bug, Ash weevil, Leaf webber.

**Unit-II** **(15)**

**A) Pests of Livestock:**

Major: Cattle louse, Stable fly and sand fly. Minor: Blowfly, Black fly, Horse fly.

**B) Forest Pests:**

Major: Termite, White grub, Teak defoliator & Subabulpsylla.  
Minor: Cut worm, Stem and Root borer, Sesame defoliator

**C) Pests of Ornamental plants:**

Major: Cotton white fly, Digger wasp, Spiraling Whitefly, Leaf eating caterpillar.  
Minor: Thrip, Scale insect, Leaf minor, Lawn webworm.

**Unit-III** **(15)**

**A) Pests of Polyhouse and Greenhouse plants:**

Major: *Helicoverpa* borer, Mite, Mealy bug, Aphid, White fly, Thrips  
Minor: Cutworm, Leaf minor and Armyworm.

**B) Nematode pests of crops (Polyphagous) :**

Migratory endo-parasitic nematodes.  
i) Root knot nematode (*Meloidogyne spp.*)  
ii) Cyst forming nematode (*Heterodera spp.*)  
iii) Seed gall nematode (*Anguina spp.*)  
iv) Molya nematode (*Heterodera avena*)

**C) Vertebrate Pests of Agriculture crops:**

Major: Indian field mouse, Monkey, House sparrow, Wild pig.  
Minor: Common green bee-eater, Indian desert gerbil, Rose-ringed parakeet.

**Unit-IV** **(15)**

**A) Ecology**

Concept of ecology, Environment and its components-biotic and abiotic factors and their effects on growth, development, population dynamics, distribution and dispersal.

**B) Molluscan Pests of Agriculture crops:**

Snails:- *Helix* spp., *Achatina fulica* & *Amarginata*  
Slugs: *Limax* spp.

**Reference Books:**

1. Pests of Stored grain products Burgess by R. T. Cotton.
2. Introduction to Entomology by M. S. Mani.
3. A textbook of Entomology by A. D. Imm.
4. Agricultural pest of India and South East Asia by Atwal.
5. Agriculture Entomology by K. M. Smith.
6. A textbook of Applied Entomology by K. Shrivastava.
7. Principles of Forest Entomology by Graham & Night.
8. Agricultural Entomology by S. Pradhan.
9. Store grain pests and their management – Khare, S.P., Kalyani Publications
10. A text book of Plant Nematology – Upadhyay and David – Aman Publishing.
11. General and Applied Entomology – David & Ananthakrshnan – McGraw Hill Publications.

## PAPER-VIII

### AGRONOMY, SEED TECHNOLOGY, PATHOLOGY, WEED SCIENCE AND BIOSTATISTICS

(CC-204)

#### Unit-I (15)

**Agronomy of crop plants:** Introduction, cultivation of important crops:- paddy, sorghum, wheat, sugarcane, cotton, soybean, groundnut, tobacco, tomato, cabbage and cauliflower with respect to soil, climate, seed rate, varieties, fertilizer requirement and crop protection.

#### Unit –II

A) **Seed Technology** – characteristic of improved seed, seed certifying agencies in India. Seed Act 1966 and seed certification, certified seeds procedure, receipt and scrutiny of application. Field inspection, seed sampling, seed analysis or seed testing. (8)

B) **Weed science** - Definition, classification, dispersal of weeds and management of weeds: physical, chemical and biological method of control, dissemination and assessment of losses. (7)

#### Unit–III (15)

##### **Diseases of cereals, millets, sugar and fiber crops:**

Rice- Brownspot, Blast, Bunt, udbatta, stem rot.

Wheat- Powdery mildew, *Alternaria* leaf blight, Loose smut, Rusts, Ear Cockle.

Maize -Downy mildew, Brown spot, seed and seeding blight, wilt anthracnose.

Sorghum – Downy mildew, Ergot, smut, anthracnose, leaf blight.

Bajara – Green ear, Ergot, rusts, leaf blight

Barley – Smut, powdery mildew, root rot, fruit rot, barley stripe mosaic.

##### **Sugar crops & fiber crops:**

Sugar beet- leaf spot, powdery mildew, downy mildew, phoma, root rot.

Jute- Anthracnose, macrophomia disease, bacterial wilt, stem gall.

Sun hemp - wilt, rust, phylloidy, leaf curl

#### Unit –IV

A) **Biostatistics** - collection of data, Tabulation, Frequency distribution, Graphic presentation of data, Measure of central tendency, measure of dispersion, standard error, chi square test, T- test (8)

B) Disease caused by Parasitic algae, Parasitic higher plant. Parasitic nematodes, viroid, infection process and management. (7)

#### Reference Book:

1. Seed Programming Management System & concept by Dadheek P.K., 1997.
2. Handbook of pure seed definition with illustration, by Dadheek P.K., 1995.
3. Handbook for seedlings Evaluation (2nd Edition) by SchmittGrob, R., 1997.
4. Microbial Biotechnology, by Reddy S.M., 1997.
5. Fungal Protoplast, A Biotechnological Tool by D. Lalithakumari 2000. IBH Publisher, New Delhi.
6. Element of Biotechnology by Gupta, P. K. 2000, Rastogi Publisher, Meerut, India.
7. Plant Biotechnology by Singh, B. D. 1999.



**PRACTICALS (SEMISTER-II)**  
**(CCPR-205)**  
**CHEMICAL SCIENCE PRACTICAL**

1. Determination of total hardness of water.
2. Determination of sulphate ion from given water.
3. Determination of amount of Calcium from given lime sample.
4. Determination of percentage purity of given sample of soda ash.
5. Determination of chloride ion in water sample by precipitation method.
6. Determination of percentage purity of boric acid using supplied sodium hydroxide.
7. To estimate copper from given soil sample by colorimetrically.
8. To determine phosphate from given water sample by colorimetrically.
9. To determine alkalinity of water sample.
10. Determination of percentage purity of 2, 4-D using alkali sodium hydroxide.
11. Determination of calcium carbonate in soil sample.
12. Determination carbonate and bicarbonate in given water sample titrimetrically.
13. Determination of emulsion stability and cold test of pesticide.
14. Determination of acidity or alkalinity of given pesticide sample.

Any Suitable experiment may be added whenever necessary.

**Reference Books**

- a. A Textbook of inorganic qualitative analysis by A. I. Vogel.
- b. Method of pesticide analysis by Shree Ramulu.
- c. Textbook of practical organic analysis including qualitative and quantitative analysis by A. I. Vogel.

**SEMISTER-II**  
**LIFE SCIENCE PRACTICALS**

**(Botanical and Microbiology practicals & Study of Pests of Narcotic and other crops)**

**Entomology**

Study of the major and minor pests of the different categories as per syllabus and locally available. (One/Two of each category):

Collection and Identification of following pests:

- 1 Pests of medicinal importance.
- 2 Pests of stored grain.
- 3 Vertebrate pests of agricultural crops.
- 4 Nematode pest of agricultural crops.
- 5 Rearing of pulse beetle, *Spodoptera litura*
- 6 Visit to the forest and poultry...etc.
- 7 Visit to the polyhouse and green house.
- 8 Submission of pests and field diary.
- 9 Any suitable experiment may be added, whenever necessary.

**Pathology**

1. Study of Agronomy of crop plant – As mentioned in theory.
2. Study of weeds-Dicot weeds, monocot weeds, poisonous weeds, noxious weeds, weed dispersal.
3. Seed viability test by TTC method (At least 3-4 diff seeds)
4. Seed scarification methods
5. Study of diseases from cereals, millets, fiber crops (As mentioned in theory syllabus)
6. Bio-stat: mean, median, mode S.D. with graphical presentation.
7. Determination of organic carbon in soil
8. Determination of calcium in soil.
9. Separation of amino acid by paper chromatography.
10. Determination of soluble sulfates from soil.
11. Estimation of sucrose percentage by Refractometer.
12. Any Suitable experiment may be added whenever necessary.

**Reference Books**

1. Introduction to Entomology by M. S. Mani.
2. A textbook of Entomology by A. D. Imm.
3. Agricultural pest of India and South East Asia by Atwal.
4. Agriculture Entomology by K. M. Smith.
5. A textbook of Applied Entomology by K. Shrivastava.
6. Plant Pathology 5<sup>th</sup> Edition by G. N. Agrios
7. Pathological problems of economic crop plant and their management by Paul and Khurana S. M., 1998.
8. Fungi and plant diseases by Mundkar B. B., 1972.
9. Soil and Plant Analysis by C. S. Piper (Hans Publisher).



Estd. 1962  
NAAC 'A' Grade

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शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग— २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Science/6784

Date:04 /07/2019

To,

The Head/Co-ordinator/Director  
All Concerned Department (Science)  
Shivaji University, Kolhapur.

**Subject:** Regarding syllabi of M. Sc. Part-II (CBCS) degree programme under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of M. Sc. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

M.Sc.-II (Sem. III & IV) (CBCS)	
1.	Agro Chemical and Pest Management (AGPM)

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2019 & March/April 2020. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Science and Technology	8	P.G.Seminar Section
2	Director, Board of Examinations and Evaluation	9	Computer Centre
3	The Chairman, Respective Board of Studies	10	Affiliation Section (U.G.)
4	B.Sc. Exam	11	Affiliation Section (P.G.)
5	Eligibility Section	12	P.G.Admission Section
6	O.E. I Section	13	Centre for Distance Education
7	Appointment Section		

# SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

**Faculty of Science and Technology**

**Syllabus For**

**M. Sc. Part – II (Sem III & IV)**

**Agrochemical and Pest Management (AGPM)**

**(To be implemented from June 2019 onwards)**

(Subject to the modifications that will be made from time to time)

## M. Sc. PART-II (SEMESTER-III)

### Paper- IX

#### PESTICIDE RESIDUES AND TOXICOLOGY

##### Unit-I: Residues of Agrochemicals:

(15)

###### a) Pesticides Residues in the Atmosphere:

Pesticides into the Atmosphere and their fate, Transport of vapours, Precipitation, effect of residues on human life, Photochemistry of Pesticides.

###### b) Pesticides Residues in Water System:

Nature and origin of pollution of aquatic systems, Point and Non-Point pollution. Dynamics of pesticides in aquatic environment.

###### c) Pesticides Residues in the Soil:

Absorption, Retention, Transport and Degradation of pesticides in the soil, Effect on micro-organism and Consequent effect on the soil condition, Fertility, Interaction in the soil, Geo-hydrological aspects.

##### Unit-II: Extra microsomal metabolism of insecticides and Selectivity Concepts:

(15)

Enzymatic conjugation, OP and OC metabolism, Electrophysiology of nervous system and insecticide action. Acetylcholine esterase inhibition, Parameter affecting action of pesticides, Development of pesticide resistance. Ecological and Physiological selectivity, Prospects of selective pesticides, Resistance concept and its significance. Treatment of insecticide poisoning OP, OC, Carbamates Mode of action of Herbicides.

##### Unit-III: Pesticide residue Penetration and Distribution:

(15)

Effect of pesticide residue on the quality of Human life. Model ecosystem, Studies of Bioconcentration, bio-magnifications and bio-degradation effect of pesticides on life. In general and consequent effect on human life. The cases of & affected societies and starving populations facing problems of health and nutrition, Traditional wisdom and Food security.

##### Unit-IV: Pesticide analysis:

(15)

Special techniques, Sample preparation and Pesticide residue analysis methods. Bio-pesticides, Poisoning effects, Symptoms and Treatment. Further prospects of Research and Technology, Development of safe pesticides. Effluents of Agrochemicals and their disposal.

##### Reference Books

1. Chemical analysis of the environment by Ahuja.
2. Environmental chemistry by A. K. De.
3. Chemistry of our environment by Home (JW).
4. Analysis of pesticides residues by H. A. Moye (JW).
5. Advance in pest control research by R. L. Methcalf (JW).
6. Chemistry of pesticides by K. H. Buchel (JW).
7. Progress in pesticides biochemistry and Toxicology V. I, II, III by D. H. Hutson and T. R. Roberts.
8. Evaluation of pesticides in ground water by W. Y. Garnett, R. C. Honeycatt and others.
9. Chemistry of pesticides by Edward.
10. Insecticide biochemistry and physiology by C. F. Wilkinson.
12. Comprehensive insect physiology, Biochemistry and pharmacology WI, 12, by G. A. Kerkut and L. I. Gilbert.

## PAPER-X

### PESTS OF CROP PLANTS AND THEIR CONTROL- I

#### Unit-I: Pests of Cereal and millets (15) (Classification, Biology, Nature of damage and Control Measures)

##### A) Pests of Cereals:

- a) **Rice:** I) Major – Brown plant hopper, Yellow stem borer, Swarming Caterpillar.  
II) Minor – Rice ear head bug, Armyworm, Pink borer, Rice hispa, Blue Beetle
- b) **Sorghum:** I) Major – Midge fly, Aphids, Shoot fly, stem borer.  
II) Minor – Leaf roller.
- c) **Maize:** I) Major- Bug (Deliphacid), Ear head bug, Stem borer, Pink borer, American Fall ArmyWorm  
II) Minor- Pyrilla, Aphid.
- d) **Pearlmillet:** I) Major- Blister beetle.  
II) Minor- Surface grasshopper, Armyworm
- e) **Wheat:** I) Major- Jassid, Termite, Stem borer.  
II) Minor- Aphid, Nematode.

#### Unit-II: Pests of Pulses & Sugarcane (15)

- a) **Pulses:** Chickpea, Pigeon pea, Cowpea, Peas, Green gram, Black gram, Kidney bean, Cluster bean, etc.  
I) **Major-** Gram pod borer, Tur pod bug, Pigeon pea pod fly, Pea aphid, Spodoptera.  
II) **Minor-** Bean fly, Aphid, Tur plum moth, Thrips, Mite.
- b) **Pests of Sugarcane:**  
I) **Major:** Borer Complex (Early shoot borer, Top shoot Borer, Internode Borer), White grub, White fly.  
II) **Minor:** Armyworm, Mite, Sugarcane Woolly Aphid, Termite

#### Unit-III: Pests of Oil-seeds & Forage Crops: (15)

- a) **Groundnut:** I) Major: Groundnut leaf miner, aphid, thrips  
II) Minor: Bihar Hairy caterpillar & Spodoptera
- b) **Sunflower:** I) Major: Head borer, Bihar hairy Caterpillar.
- c) **Safflower:** I) Major: Aphid & Leaf eating Caterpillar.  
II) Minor: Safflower bud fly.
- d) **Mustard:** I) Major: Mustard aphid, Mustard sawfly  
II) Minor: Diamond back moth.
- e) **Soyabean:** I) Major: Pod borer, Jassid, Grey weevil.
- f) **Castor:** I) Major: Castor capsule borer, Castor semi-looper.  
II) Minor: Castor white fly.
- g) **Sesame:** I) Major: Til hawk moth, Pod sucking bug,
- h) **Linseed:** I) Major: Gall fly  
II) Minor: White fly & jassid.
- i) **Cotton crop:** I) Major: Sucking Pest Complex (Aphids, Jassids, Whitefly, Thrips, Mites)  
Bollworm Complex (Spotted, American, Pink bollworms)  
II) Minor: Cotton leaf roller, Cotton stem weevil, Mealy bug.
- j) **Pests of Forage crops:**  
**Lucerne or Alfa-alfa:** I) Major: Aphids, Cutworm, Armyworm.  
II) Minor: Whitefly, Spotted flea beetle.  
**Bersim :** I) Major: Gram pod borer, Hairy caterpillar, Spotted alfalfa aphid.  
II) Minor: Red pumpkin beetle, Grasshopper.

**a) Applied Entomology :**

Causes for insect assuming pest status, Type of damage to plants by insects and their estimation. Methods and principles of pest control, Natural and Applied, Preventive & Curative methods: Cultural, Mechanical, Physical, Legal and Biological.

**b) Pest Management:**

Need of IPM, Tactics and strategies of pest management (IPM) Concept and tools of pest management, ECO system concept, Ecological Niche concept, Colonization of island, Crop island in ecosystem, Quantitative Basis of pest management, Sampling and measuring system Analysis and Modelling in pest management, Monitoring forecasting and field loss Assessment. Design making system, Constraint and Strategies in implementation of IPM, Validation of IPM, Host plant resistance.

**c) Bio-efficacy of some pesticides against major pests:**

Evaluation of toxicity of insecticides, Bioassay methods, Insecticide resistance and Resistance management.

**d) Miscellaneous Approaches:**

Biorational and other innovative approaches: Introduction, chemicals based on insect cuticle chitin, Protein chemicals: based on Endocrine system, Use of insect growth regulators , Brain, Juvenile and Moulting hormones, Chemicals based on communication system: Allelochemicals, Semiochemicals and Pheromones, Light activated pesticides, Pro-pesticides and Genetic control.

**e) Recent advances in pest control: Green Chemistry in pesticides:**

Recent insect attractants, Chemosterilants and Repellents, Mode of action and Applications of Neem in plant protection: Introduction, Chemical constituents, Bioefficacy of Neem preparation.

**Reference Books**

1. Text of Applied Entomology Vol I & II -K.P.Srivastava.
2. Introduction to Insect Pest Management.
3. Textbook of insects Toxicology.
4. Introduction to Biological control.-R.Bosch, D.S.Messenger&A.D.Gutierrez.
5. Principles of Insect Pest Management. –G.S.Dhaliwal and R.Arora.
6. Entomology and Pest Management –Larry P.Pedigo.
7. Elements of Economic Entomology –B.V.David and T.Kumaraswamy.
8. Insect Pest Management –David Bent.
9. Critical issues in Insect Pest Management –G.S.Dhaliwal and E.A.Heinrich.
10. Emerging trends in Biological control of Phytophagous Insects Ed.- T.N.Anatkrishnan.
11. Toxicology of Insecticides- Fumio matsumura.
12. Biological Pest Suppression – H.C.Coppelend and J.W.Martin.
13. Neem in plant protection: R.T.Gahukar, Agri-Horticultural Pub. Nagpur, 2003.

**PAPER-XI**  
**ANALYSIS OF AGROCHEMICALS**

**Unit-I** **(15)**

- a) Separation Technique: Principles, instrumentation and applications of gas Chromatography (GC) and HPLC.
- b) Gas analysis: Analysis Of SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, NH<sub>3</sub>, and H<sub>2</sub>S in the effluent gases.

**Unit-II** **(15)**

- a) Radioactivity- Measurement, Application of radio isotope in agriculture, Health hazard of activity ratio, Neutron activation analysis and its application.
- b) Polarography: Voltage current, Curves, Analysis of Polarogram,
- c) Fluorescence spectroscopy: Basic principles, Methodology, Applications

**Unit-III** **(15)**

- a) Ultraviolet spectroscopy: Principles, Instrumentation and Applications, Ultraviolet spectrophotometer in the analysis of agrochemical and pesticide residue and metabolites
- b) Infrared spectrometry: Principles, Instrumentation and Applications.

**Unit-IV** **(15)**

- a) Nuclear Magnetic Resonance spectrometry: Nuclear spin and Absorption of Radiofrequency, Chemical shift, Application in pesticide residue analysis NMR Spectroscopy.
- b) Mass spectrometry: Schematic of mass spectrometer, Ionization and Fragmentation of molecules. Interpretation and application in the pesticide residue and metabolites analysis GC-MS techniques.

**Reference Books:**

- 1.Spectroscopic methods in Organic Chemistry –D.H.Williams and I.Flemming.
2. Instrumental methods of analysis –Willard and Merittee, Dean.
- 3.Application of spectroscopic techniques inorganic Chemistry-P.S.Kalsi.
- 4.Concept in analytical Chemistry –S.M.Khopkar.
- 5.Analysis of pesticide residue –H.A.Moye(JW).
- 6.Advance in pest control research –R.L.Metcalf. 7.Application of absorption in Spectroscopy – J.R.Dyer. 8.Soil and plant analysis –C.S.Piper(Hans pub.)



## Paper-XII

### DISEASES OF VEGETABLES, FRUIT TREES, PLANTATION TREES, FOREST TREES AND ORNAMENTAL PLANTS.

#### Unit-I: (15)

##### Diseases of Vegetables: (Fungal, Bacterial and Viral Diseases, their Symptoms, Life cycle and Control measures.)

Tomato- Damping off Seedlings, Late blight of tomato, Early blight of tomato, *Fusarium* wilt, Bacterial wilt of tomato, Root knot of tomato.

Brinjal- Leaf spot of Brinjal (*Alternaria* and *Cercospora* spots), *Sclerotinia* blight, Root knot nematode, *Verticillium* wilt.

Bhendi- *Cercospora* leaf spot, *Fusarium* wilt, Powdery mildew, Damping off.

Chillies- Anthracnose, *Cercospora* leaf spot, Powdery mildew, Bacterial leaf spot, Mosaic of chilli.

Turnip (*Brassica campestris*) - Powdery mildew, white rust, Downy mildew.

Carrot- *Alternaria* blight, Powdery mildew, *Cercospora* leaf spot, Carrot yellow.

Cluster bean- Powdery mildew, Anthracnose, Bacterial blight.

##### Cucurbitaceous Vegetables: [Pumpkin, Ash-gourd, Bitter gourd, Snake gourd, Bottle gourd, Ridge gourd and Watermelon]

Powdery mildew, Anthracnose, *Cercospora* leaf spot, *Fusarium* wilt, Bacterial leaf spot, Cucurbit mosaic.

#### Unit-II: (15)

##### Diseases of Fruit Trees:

Mango- Anthracnose, Powdery mildew, Sooty mould, Blight of Mango, Red rust.

Apple- Apple scab, Powdery mildew, Canker and Die back, Fruit rots.

Banana- *Sigatoka* leaf spot, Anthracnose, Panama disease, Bacterial wilt, Bunchy top, Pseudo-stem heart rot.

Cashewnut- Anthracnose, Damping off seedlings, Die back.

Citrus sp. - Gummosis, Powdery mildew, Sooty mould, Anthracnose, Citrus greening.

Custard Apple- Anthracnose, Leaf spot, Fruit rot.

Grape- Downy mildew, Anthracnose, Powdery mildew, Black rot.

Guava- Anthracnose, zinc deficiency, *Rhizoctonia* seedling blight, sooty mould.

Pomegranate- Bacterial leaf spot, Fruit rot, Fruit cracking.

Sapota- Leaf spots (*Phaeophleospora indica*), Sooty mould.

Fig- Fig rust, Fig mosaic.

#### Unit-III: (15)

##### Forest and Plantation Tree diseases:

###### Forest Diseases:

Teak- Powdery mildew, Rust.

Sissoo- Rust, Powdery mildew.

Bamboo- Rust, Tart spot.

Eucalyptus- Foliage diseases

Santalum- Sooty mould, Powdery mildew, MLO disease.

###### Plantation Tree diseases

Arecanut- Leaf spot, Fruit rot (*Koleroga*)

Cocoa- Seedling die back, *Colletotrichum* pod rot, Charcoal pod rot, Sickle leaf of Cocoa, Pink disease, Tree Canker.

Coconut- Bud rot, Root rot or wilt, *Helminthosporium* leaf spot.

Coffee- Rust, Koleroga or Black rot, Anthracnose, Brown eye spot.

Rubber- Abnormal leaf fall and stem rot Powdery mildew, Die back, *Glomerella* leaf disease.

Tea- Red rust, Blister blight, *Cercospora* leaf spot, Root rot.

**Unit-IV:****Diseases of Ornamental plants.**

Aster- Wilt, Downy mildew, Powdery mildew.

Begonia- Blotch, Powdery mildew, Root and Stem rot.

Marigold- Powdery mildew, Leaf spots.

Canna- Rust, Bud rot, Spots leaf.

Carnation- Leaf spots, Powdery mildew, Rusts.

Chrysanthemum- Brown rust, Powdery mildew, Ray blight, *Septoria* leaf spot.

Dahlia- *Sclerotinia* rot, leaf spot, Powdery mildew.

Geranium- Leaf spot, Blossom blight, Rust, Bacterial spot.

Gladiolus- *Botrytis* rot, Dry rot, *Fusarium* dry rot.

Rose- Black spot, Rust, Powdery mildew, Die back.

Sunflower- Leaf spots, Rusts, Powdery mildew.

Jasmine- Leaf spot, Crown gall, Rust.

Lily- Leaf spot, Foot rot, Stump rot.

**Reference Books:**

1. Plant pathology 5th Edition by G.N.Agrios.
2. Principles of insect pest management by Dhaliewal and Arora.
3. Pathological problems of economics crop plants & their management by Paul Khurana, S.M., 1998.
4. Fungire& plant diseases, by Mundkur B.B.1995.
5. Tropical plant diseases by Turston H.D.
6. Integrated Diseases management and plant health by Gupta V.K.& Sharma R.C.
7. Diseases of millets by Ramkrishnan T.S. I.C.A.R.publ. New Delhi.
8. Fungal diseases of rice in india by Padmanabhan S.Y. I.C.A.R.Publ., Delhi
9. Plant Diseases by Singh, R.S. 1963.
10. Diseases of Crop Plants in India 4th Edition by Rangaswami, G. & Mahadevan, A.2008.

## M.Sc-II, Semester- III

### Practical

#### A] Chemical Sciences

1. Saponification and acid values of oil
2. Estimation of phosphate from super phosphate.
3. Estimation of sulphate from super phosphate.
4. Determination of Caffeine from tea leaves.
5. Isolation of lactose from milk.
6. Analysis of soil samples: Estimation of Ca, Mg, carbonate ( $\text{CO}_3^-$ ) and bicarbonate ( $\text{HCO}_3^-$ ) by Titrimetric analysis.
7. Estimation of Malathion content in a given sample.
8. Estimation of Simazine by colorimetric method.
9. Determination of phorate content
10. Estimation of Carbendazim in given formulation.
11. Estimation of Carbaryl in a given formulation.
12. Detection of pesticides residue in food stuffs.
13. Detection of pesticides plants.
14. Estimation of Aminoacids.
15. Determination of bulk density of pesticidal WP/WDG/Dust/SP.
16. Determination of wettability of pesticidal WP/WDG/Dust/SP.
17. Performing wet sieve test of pesticidal WP/WDG/Dust/SP.
18. Determination of Suspensibility of pesticide formulation WP/WDG/SC.
19. Preparation of granules/WDG formulation.
20. Preparation of WP formulation
21. Volumetric determination of acidity/ alkalinity of WP.
22. Estimation of potassium content (Soil/Fertilizer) by Flame Photometer
23. Any suitable experiment may be added whenever necessary.

#### Reference Books:

1. A Textbook of Inorganic quantitative analysis by A. I. Vogel.
2. Methods of pesticides analysis by Shree Ramulu.
3. A Text book practical Organic Chemistry including qualitative and quantitative analysis by A. I. Vogel.

## M.Sc-II, Semester- III

### Practical

#### B] Life Sciences

##### (Plant pathology)

1. Study of vegetable diseases as prescribed in the syllabus.
2. Study of fruit crop diseases as prescribed in the syllabus.
3. Study of forest tree and plantation diseases as prescribed in the syllabus.
4. Study of ornamental crop diseases as prescribed in the syllabus.
5. Estimation of Lycopene under pathogenesis.
6. Colorimetric estimation of free fatty acids under pathogenesis.
7. Determination of iodine value of oil under infection.
8. Determination of peroxide value of oil under pathogenesis.
9. Separation of Sugars by TLC.
10. Estimation of tannins by F. D. Method.
11. Estimation of Amylose under pathogenesis.
12. Separation of organic acids by Chromatography.
13. Separation and detection of IAA by Chromatography.
14. Visit to Horticultural University/ Nursery.
15. Visit to Agricultural University/ College.
16. Any suitable experiment may be added whenever necessary.

##### (Entomology)

1. Rearing of pest species. (3 to 4 species).
2. Study of life cycles of important pests of crop plants as per syllabus at least two of each category and laboratory and field diary..
3. Study of the detection of damage caused by pests.
4. Identification of different castes of termites.
5. Any suitable experiment may be added whenever necessary.

#### Reference Books

1. Introduction to Entomology by M. S. Mani.
2. A Textbook of Entomology by A. D. Imm.
3. Agricultural Pests of India and South East Asia by Atwal.
4. Agriculture Entomology by K. M. Smith. 5. A textbook of Applied Entomology by K. Shrivastava.

## M. Sc. Part II (Semester –IV)

### Paper XIII

#### AGRO-BASED MARKETING MANAGEMENT

##### Unit-I (15)

- a) **Marketing definition, concepts, scope, Importance:** Types, Approaches, Models, Principles. Agricultural growth, Development, Policy, Role of NABARD, APEDA, RBI.
- b) **Market process & planning Concept:** Creating & Delivering customers value Marketing mix, Marketing environment & Approaches, Future marketing.

##### Unit-II (15)

- a) **Indian marketing environment**  
Challenges, Economy Scope, Importance, Scenario
- b) **Marketing strategies:**  
Marketing planning & strategies, Analysing industry & Competition. Competitive advantage & Market risk, Problems & Agri.-Marketing.

##### Unit-III (15)

- a) **Analysing Consumer & Selecting Market:**  
Buyers behaviour, Indian consumer, Target marketing, STP Segmentation, Target, Positioning.
- b) **Distribution channels:**  
Types, Definition, Channels.
- d) **Direct marketing:**  
Branding, Globalization & consumer behaviour, Supply chain management, Shoot Analysis, 4Ps – Product, Price, Place, Promotion. Product life cycle & pricing, New product development, Advertising / Promotion.
- d) **Sales & Distribution:**  
Demand measurement, Market Research & Methodology, Market evaluation & Controls, Sales Characters Definition, Types.
- e) **Small Scale Industry:** Pesticides industries in India, Norms, Governments policy, Benefits regulations, Administration, Marketing and management, Planning of small scale units economics, Licenses marketing of Agrochemicals, Marketing research know-how, Man-Power, HRD.

##### Unit-IV (15)

- a) **Marketing ethics & Audit:** Storage, After & before sales service
- b) **Rural marketing in India cooperatives in Agribusiness Marketing.**
- c) **Agriculture export & import process:** Policies, Taxation, Laws, Packing Norms, etc. Use of It or export market.
- d) **International marketing:** WTO, GATT, etc. Laws.
- e) **Details studies on marketing process** in the Netherlands, Israel, Japan USA, Australia.  
Present status of Indian export in comparison to developed countries.
- f) **Agricultural project analysis** Agri-food, Service, Industry.
- g) **Case studies:** Agri. Input industry, Food, Whole selling, Retailing, mall.
- h) **Group discussion, & group presentation.**

**Reference books:**

- 1) Marketing : Philip Kotler
- 2) Marketing : V.S Management by Ramaswami
- 3) Marketing of – Richard L.
- 4) Agricultural Kohls & Products Joseph N. D.

**PAPER-XIV**  
**PESTS OF CROP PLANTS AND THEIR CONTROL – II**

**Unit-I** **(15)**

**a) Bio-control in Agro-ecosystem through Management & Entomophagous insects:**

Introduction, Role and impact of Predators, Parasitoids, Biological characteristics, Role and impact strategies of biological control, Conservation and Habitat management.

**b) Microbial control of insects:**

Introduction, History, Principle groups of pathogen, *Bacillus thuringiensis*, Fungi, Viruses, Protozoa, Their mode of action and methods of applications.

**Unit-II :** **(15)**

**A) Pests of Plantation Crops**

**a) Coconut:** I) Major: Rhinoceros beetle, Red palm weevil, Black headed caterpillar, Mite.  
II) Minor: White grub, Rodent.

**b) Cashew nut:** I) Major: Leaf miner, Tea mosquito bug, Thrip.  
II) Minor: Stem borer, Scale insect.

**c) Rubber trees:** I) Minor: Stem borer, Bark Eating Caterpillar, Scale insect, Termite.

**d) Tea plants:** I) Major: Mosquito bug, Bunch Caterpillar.  
II) Minor: Thrips, White grub & leaf feeder.

**B) Pests of Spices and Condiments:**

**a) Tobacco:** I) Major: Leaf eating Caterpillar, Stem borer, Aphid.  
II) Minor: Cut worm, Flea beetle, Bud borer & Nematode

**b) Turmeric & Ginger:** I) Minor: Rhizome fly, Caster capsule borer.

**c) Coriander:** I) Major: Cotton white fly, Pentatomid bug.  
II) Minor: Indigo Caterpillar.

**d) Black paper:** Mealy bug, Scale insect.

**e) Cardamom:** I) Major: Banana, Aphids, Thrips.  
II) Minor: Castor capsule borer, Rhizome weevil.

**f) Cinnamon:** I) Major: Butterfly, Tussock Caterpillar.  
II) Minor: Leaf minor

**g) Chilli:** I) Major: Thrips, Mite, Whiteflies  
II) Minor: Aphid, Fruit borer, Termite, Nematode.

**h) Onion & Garlic:** I) Major: Onion Thrips.  
II) Minor: Onion fly, Cutworm.

**i) Betel vine:** I) Major: Whitefly, Nematode.  
II) Minor: Aphid.

**Unit-III: A) Pests of vegetables** **(15)**

**a) Cabbage, Cauliflower, Knol-Khol, Radish & other Cruciferous Vegetables:**

I) Major: Diamond back moth, Cabbage Semi looper, mustard aphid.  
II) Minor: Leaf Webber & Cabbage borer.

**b) Brinjal:** I) Major: Shoot & Fruit borer, Jassid, Aphid.  
II) Minor: Stem borer, Tingid bug, Melon fruit fly.

**c) Tomato:** I) Major: Fruit borer, Aphid, Cotton white fly.  
II) Minor: Thrips, Leaf hopper, Mealy bug.

**d) Potato:** I) Major: Tuber moth, Golden cyst nematode.  
II) Minor: Aphid, Thrips.

**e) Lady's finger:** I) Major: Spotted bollworm, Aphid, Cotton Jassid.  
II) Minor: Leaf roller.

**f) Cucurbits:** I) Major: Red Pumpkin beetle, Fruit fly.  
II) Minor: Blister beetle, Red vegetable mite, Aphid.

- g) Sweet potato:** I) Major: Weevil.
- h) Sugar beet:** I) Major: Army worm, Leaf Webber, Rodent.  
II) Minor: Painted bug, Cutworm, Aphid, Thrips.
- i) Leafy vegetables:** (Coriander, Spinach, Fenugreek, Lettuce, Amaranthus, etc)  
I) Major: Aphid, Flea beetle, Stem weevil, Leaf miner.  
II) Minor: Grass hopper, Leaf hopper.

#### **Unit IV: Pests of Fruits & Fruit Trees**

**(15)**

- a) Mango:** I) Major: Mango hopper, Stem borer, Giant mealy bug, Stone Weevil, Fruit fly.  
II) Minor: Leaf and shoot gall insect, Red ant, Termite.
- b) Grape vine:** I) Major: Thrips, Flea beetle, Mealy bug.  
II) Minor: Leafhopper, Two spotted spider mite
- c) Chikoo:** I) Major: Leaf Webber, Mealy bug, Chikoo moth
- d) Pomegranate:** I) Major: Anar butterfly, Fruit sucking moth.  
II) Minor: Shoot borer, Mite, Thrips, Scale insect
- e) Citrus:** I) Major: Black fly, Psylla, Mite, Cottony cushion scale.  
II) Minor: Fruit sucking moth, Lance nematode, Aphid.
- f) Apple:** I) Major: Woolly apple aphid, Peach leaf curl aphid.
- g) Guava:** I) Major: Guava fruit fly, Mealy bug, Spiraling whitefly.  
II) Minor: Scale insect.
- h) Papaya:** I) Major: Aphid, Cotton white fly.  
II) Minor: Red spider mite.
- i) Banana:** I) Major: Aphid, Pseudostem weevil, Root Stock Weevil & Burrowing nematode.
- j) Fig:** I) Major: Jassid, Mealy bug.  
II) Minor: Fig borer, Fruit fly.
- k) Ber:** I) Major: Fruit fly, Fruit borer, Jassid.  
II) Minor: Ber beetle.
- l) Pineapples:** I) Major: Thrips.
- m) Jackfruit:** I) Major: White tailed mealy bug, Bark borer.  
II) Minor: Pink waxy scale.

#### **Reference Books:**

1. Biological Insect Control chapter 10-14, by M.S. Quraeshi.
2. Biological Insect Pest suppression by H.C.Cooper (spinglervelag)
3. Agriculture use of anti-biotics by W.A. Moats.
4. Pesticide chemistry by J.Miyamoto and P.C.Kearney (Pergamon)
5. Hand book of pest management in agriculture Wi.II by D. pimentel.
6. Biological pest control by N.W. Hussey and N. Scopes (Glandford press)
7. Safer pesticides by E. Hodgson and R.J.Kuber (Dekker)
8. Insect sex pheromones by M.Jacobson (AP).
9. Control mechanisms in plant development by A.W. Gloston and P.J.Davies.



**Paper-XV**  
**MANUFACTURES OF AGROCHEMICALS**

**Unit-I-** **(15)**

**Types of Unit Operations and Study:**

**Extraction:** Principles, Equipment of Solid-Liquid and Liquid-Liquid extraction.

**Evaporation:** Purpose, Operation of multiple effect Evaporators.

**Distillation:** Fractional distillation, Plate and packed columns, Steam distillation of Azeotropes.

**Absorption:** Gas absorption in towers.

**Filtration:** Types of filters, Working of Centrifuge.

**Crystallization:** Purpose, Batch and Continuous Crystallizes.

**Drying:** Types of dryers, Working of compartment tray and spray dryers.

**Reactors:** Diagrams and Working of batch reactor.

**Unit-II-** **(15)**

a) **Quality control and R&D:** Quality control concept, Specification and analytical procedures, Control of Quality of raw material, Intermediates and Finished goods, Batch inspection, R&D laboratory specifications, WHO, FAO, ASTM, BIS, ISI Specification and Standards.

b) **Occupational Health Hazard and their control in Agrochemical Industries:**

Handling of chemicals and Pesticides Hazards Occupational Asthma and Pulmonary diseases, Dermatitis & Cancer. First Aid Emergency medical Response, Medical organization for major accident hazard control, Importance and Various kinds of First Aids. Health Education for workers. Occupational Health Management, Industrial safety.

**Unit-III-** **(15)**

**Designing and synthesis of pesticides:** Retrosynthetic analysis, Synthetic approaches, Synthetic equivalence, Types of disconnection, Chemo selectivity, Retrosynthesis of agrochemicals, pheromones and Synthetic plant products.

**Unit-IV-** **(15)**

a) **Manufactures of Pesticides and other Agrochemicals:**

(Unit processes are to be discussed as they occur in the sequences): Manufacture of Captan, Dimthoate, Parathion, Agro-grade sulphur, Dimethyl phthalate, Ethylene oxide, Copper Sulphate, Simazine.

b) **Regulatory Requirements for Transportation of Agrochemical Products**

1. Transport Worthiness Test (TWT)
2. Container Compatibility Test (CCC)

**Reference Book:**

1. Unit Operations: W.L.Badger.
2. Unit processes in organic synthesis: P.H.Groggins.
3. Encyclopedia of chemical technology: Kirk and Othmar.
4. A text book of chemical technology: S.D.Shukla &G.N.Pendey.
5. Industrial chemistry by James Kent & Reigel.
6. Survey of industrial chemistry 2 Ed. by P.J.Chenier
7. Industrial chemicals: F.A.Lowheim and M.A.Moran.
8. Encyclopedia of pesticides Manufacture.
9. Industrial organic chemistry

**Paper- XVI**  
**AGRICULTURAL BIOTECHNOLOGY AND INTEGRATED DISEASE**  
**MANAGEMENT.**

**Unit-I: :** (15)

**Tissue Culture:** Definition, Historical events, Basic requirement for tissue culture laboratory, Maintenance of aseptic condition, Totipotency of cell, Nutrient media, Method of tissue culture, Nucleus culture, Embryo culture, Meristem culture, Anther culture, Pollen culture, Suspension culture, Micro-propagation, Somaclonal variation, Somatic embryogenesis, Artificial seeds, Types of artificial seeds, Production and use of artificial seeds, Secondary metabolites, Extraction of secondary metabolites, Biotransformation in plant cells, Elicitor-dependent Biosynthesis, Immobilization of plant cells, Application of tissue culture, Protoplast technology- culture, fusion, in-vitro mutation breeding, isolation and induction of protoplast to uptake cell organelles.

**Unit-II:** (15)

**Genetic Engineering:** Definition, concept, Methodology of Genetic Engineering, Principles of Recombinant DNA technology, Application of Genetic Engineering: Gene cloning Vectors for plants- *Agrobacterium tumefaciens*, T<sub>i</sub> plasmid, T<sub>i</sub> plasmid on cloning vector, disarmed T<sub>i</sub> plasmid, Binary vectors. Insertion of foreign Gene into T-DNA of T<sub>i</sub> plasmid in *Agrobacterium*. R<sub>i</sub>- plasmids, Cauliflower mosaic virus.

**Transgenic plants:** Herbicide resistant plants. Virus Resistant plants. Insect resistant plants. Resistant to fungi and bacteria. Transgenic Rice with Vit-A, Male Sterility and fertility Restoration.

**Unit-III: :** (15)

**Genetics of resistance:** Types of disease resistance, Interaction between resistant genes, Molecular marker assisted selection, Breeding for disease resistance- Back cross method, Escape method. Genetics of host-pathogen interaction, gene for gene concept, Physiological specialization, physiological specialization in fungi, Production of new races, Adaption of fungi to different hosts. Antigen, antibody reaction. Immunoglobulins and its application. Defence mechanism in plants- Biochemical defence, induced synthesis of protein and enzyme, Formation of substrates resisting the enzyme of the pathogen. Detoxification of pathogen toxin, altered respiration, Concept of Phytoncides.

**Unit-IV: :** (15)

**Integrated disease management:** Cultural, biological and chemical methods.

VAM Technology- *Trichoderma viridi*, *T. harzianum*, *Pseudomonas fluorescense*, *Glomus sp.*

Phytopesticides- concept and application (Neem, Tulsi, Karanj, Marigold, Tobacco, Turmeric, Chrysanthemum, Nirgudi).

Biofertilizers- Definition. *Rhizobium*- Mass production of *Rhizobium* and field application of *Rhizobium* inoculants, Crop response. Azotobacter- Production and field application. *Azospirillum*- Production and application of inoculants. Genetics of nitrogen fixation. Nif- gene of *Klebsiella pneumoniae*, Nif-gene of Azotobacter, Gene transfer for nitrogen fixation. Blue-Green algae- Production of BGA inoculants. Field uses of BGA inoculants. Nostoc- Mass production and utilization of Nostoc inoculants, Phosphate, Biofertilizers uses.

**Reference Books:**

1. Plant pathology 5th Edition by G.N.Agrios.
2. Principles of insect pest management by Dhaliewal and Arora.
3. Pathological problems of economics crop plants & their management by Paul Khurana, S.M.1998.

4. Fungire & plant diseases, by Mundkur B.B.1995.
5. Tropical plant diseases by Turston H.D.
6. Integrated Diseases management and plant health by Gupta V.K. & Sharma R.C.
7. Diseases of millets by Ramkrishnan T.S. I.C.A.R.publ. New Delhi.
8. Fungal diseases of rice in india by Padmanabhan S.Y. I.C.A.R.Publ., Delhi
9. Plant Diseases by Singh, R.S. 1963.
10. Diseases of Crop Plants in India 4th Edition by Rangaswami, G. & Mahadevan, A.2008.

**M.Sc-II, Semester- IV  
Practical**

**A] Chemical Sciences**

1. Synthesis:
  - a) 2, 4-D, b) Phthalamide, c) Phthalanilic acid, d) Phenyl benzoate,
  - e) Acetanilide, f) Ziram, g) 1-Napthoxy acetic acid h) Dimethyl phthalate,
  - i) Nabam/ Ferbam/ Zineb/ Maneb
2. Analysis
  - a) Colorimetric determination of vanadium in soil sample
  - b) Estimation of vanadium content from soil.
  - c) Determination of Quinolphos content
  - d) Colorimetric estimation of Parathion.
  - e) Isolation of Caffeine from tea dust.
  - f) Isolation of limonine from Citrus fruit/ Isolation of eugenol from clove oil.
  - g) Gas Chromatographic analysis of pesticides.
  - h) Estimation of copper from copper oxy chloride.
  - i) Estimation of copper in copper sulphate pentahydrate.
3. Spectroscopic characterization  
Interpretation of IR, PMR, UV and Mass spectra of organic compounds and pesticides.
4. Any other suitable experiment may be added when required.

**Reference Books:**

- 1) Text book of practical Organic Chemistry by A.I.Vogel
- 2) Practical Organic Chemistry by Mann Saunders
- 3) Spectroscopic Identification of Organic Compounds by Silverstein & Bassler
- 4) Spectroscopic methods in Organic Chemistry –D.H.Williams and I.Flemming.
- 5) Methods of pesticides analysis- U.S. Sree Ramulu, Oxford-IBH.
- 6) Pesticides, Plant Growth Regulators and Food Additives, Vol I to VI- Gunter Zweig- Academic Press.

**M.Sc-II, Semester- IV  
Practical**

**B| Life Sciences**

**(Plant pathology)**

1. Preparation of culture media, Sterilization technique, inoculation techniques.
2. Protoplast isolation, anther culture, preparation of synthetic seeds
3. Study of antifungal activity from plants.
4. Study of antibacterial properties of some plants.
5. Isolation of DNA under pathogenesis.
6. Estimation of cellulose under pathogenesis.
7. Estimation of maltose under pathogenesis.
8. Separation of sugars by silica gel by TLC
9. Separation of amino acids by TLC
10. Estimation of protein under pathogenesis
11. Estimation of carbohydrate under pathogenesis
12. Estimation of fat under pathogenesis
13. Separation of chlorogenic acid by chromatography
14. Estimation of proline under pathogenesis
15. Calorimetric estimation of total free amino acids under pathogenesis
16. Study of enzyme peroxidase and Acid phosphatase under pathogenesis by Spectrophotometer method
17. Separation of protein by electrophoresis method (Paper)
18. Estimation of Methionine under pathogenesis by Spectrophotometer method
19. Visit to tissue culture (Biotech) laboratory

**(Entomology)**

1. Determination of LC50 and LC90 in given insects.
2. Rearing of three to four pests in laboratory. (As per syllabus)
3. Field collection of pests stages and its submission.
4. Field visits (Minimum four) & Preparation of field diary.
5. Large scale production of :
  - a. *Bacillus thuriengnis*
  - b. *Metarhizium*
  - c. *Apanteles sp.*
  - d. *Bracon sp.*
  - e. *Nematodes*.
6. Identification of specimen, their taxonomy, life cycle, nature of damage and Management
7. Statistical Methods of Research
8. Any suitable experiment may be added whenever necessary

**Reference Books :**

1. Introduction to Entomology by M. S. Mani.
2. A textbook of Entomology by A. D. Imm.
3. Agricultural Pests of India and South East Asia by Atwal.
4. Agriculture Entomology by K. M. Smith.
5. A textbook of Applied Entomology by K. Shrivastava.



Estd. 1962  
NAAC 'A' Grade

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दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग- २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

SU/BOS/Science/6143

Date: 18/06/2019

To,

The Principal, All Concerned Affiliated Colleges/Institutions Shivaji University, Kolhapur	The Head/Co-ordinator/Director All Concerned Department (Science) Shivaji University, Kolhapur.
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**Subject:** Regarding syllabi of M. Sc. Part-I (Sem. I & II (CBCS) Structure, and equivalence degree programme under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of M. Sc. Part-I (Sem. I & II) (CBCS) Structure, and equivalence degree programme under the Faculty of Science and Technology.

M.Sc.-I (Sem. I & II) (CBCS)			
1.	Physics	9.	Environmental Science
2.	Mathematics	10.	Botany
3.	Geography	11.	Zoology
4.	Chemistry	12.	General Microbiology
5.	Applied Statistics and Informatics	13.	Industrial Microbiology
6.	Geology	14.	Electronics
7.	Statistics	15.	Food Science and Technology
8.	Computer Science		

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2019 & March/April 2020. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Arts & Fine Arts	8	P.G.Seminar Section
2	Director, Board of Examinations and Evaluation	9	Computer Centre
3	The Chairman, Respective Board of Studies	10	Affiliation Section (U.G.)
4	B.Sc. Exam	11	Affiliation Section (P.G.)
5	Eligibility Section	12	P.G.Admission Section
6	O.E. I Section	13	Centre for Distance Education
7	Appointment Section		

SU/BOS/Science/6138

Date: 18-06-2019





Estd. 1962  
NAAC 'A' Grade

SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग— २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/Science/6141

Date: 18/06/2019

To,

The Principal, All Concerned Affiliated Colleges/Institutions Shivaji University, Kolhapur	The Head/Co-ordinator/Director All Concerned Department (Science) Shivaji University, Kolhapur.
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**Subject:** Regarding syllabi of M. Sc. Part-II (CBCS) degree programme and Diploma/P.G.Diploma under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of M. Sc. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

M.Sc.-II (Sem. III & IV) (CBCS)			
1.	Physics	5.	Nano Science and Technology
2.	Mathematics	6.	Geography
3.	Tech. Mathematics	7.	Geology
4.	Chemistry	8.	Applied Statistics and Informatics
Diploma/ P.G.Diploma			
1	PG Diploma in Enviromental Protection and Managment		
2	PG Diploma in Industrial safety health & Environment		
3	Diploma in Industrial safety health & Environment		

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2019 & March/April 2020. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Arts & Fine Arts	8	P.G.Seminar Section
2	Director, Board of Examinations and Evaluation	9	Computer Centre
3	The Chairman, Respective Board of Studies	10	Affiliation Section (U.G.)
4	B.Sc. Exam	11	Affiliation Section (P.G.)
5	Eligibility Section	12	P.G.Admission Section
6	O.E. I Section	13	Centre for Distance Education
7	Appointment Section		



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FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)

फक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref./SU/BOS/Comm/4751

Date:01/06/2018

The Principal  
All Affiliated Commerce (B.Com.) Colleges,  
Shivaji University,  
Kolhapur.

Subject: Regarding Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Com. Part –I, II, III (Sem I & VI) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that University authorities have accepted and granted approval to Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Com. Part- I ,II,III (Sem. I & VI ) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This Guidelines, Rules, Regulation, Structure and Standard of Passing shall be implemented from academic year 2018-2019 (i.e. from June 2018 onwards). A soft copy containing Guidelines, Rules, Regulation, Structure and Standard of Passing is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus )

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl: As above

Copy to;

- 1 Dean, Faculty of Commerce & Management
  - 2 Chairman, BOS & Ad-hoc Bords under Faculty of Commerce & Management
  - 3 Appointment Section
  - 4 P.G. Admission Section
  - 5 B.Com. Section
  - 6 Affiliation Section (U.G.)
  - 7 Computer Centre
  - 8 Eligibility Section
  - 9 Distan Education
- } for information and necessary action.





# **Shivaji University, Kolhapur**

**Choice Based Credit System (CBCS)**

**Bachelor of Commerce (B. Com.) Program**

**Faculty of Commerce and Management**

(To be implemented from Academic Year 2018-19)

**Shivaji University, Kolhapur**  
**Under Choice Based Credit System (CBCS)**  
**Bachelor of Commerce (B. Com.) Program**  
**Under the Faculty of Commerce and Management**  
**Regulations and Guidelines**  
 (To be implemented from Academic Year 2018-19)

1. **Implementation of Revised guidelines and rules** - The revised guidelines and rules shall be implemented gradually as mentioned below -
  - B.Com. Sem I & II from Academic year 2018- 19**
  - B.Com. Sem III & IV from Academic year 2019- 20**
  - B.Com. Sem V & VI from Academic year 2020- 21**
2. **Eligibility Criteria:** As per Ordinance – O. B. Com. 1
3. **Pattern of CBCS** - The pattern for the purpose of Semester end examinations shall be as mentioned below:
  - i. **B. Com. Sem I & II :-** 50 marks University Semester end examination for each theory paper in each Semester.
  - ii. **B. Com. Sem III & IV:-** 50 marks University Semester end examination for each theory paper in each Semester except Environmental Studies. Only for Environmental Studies in Semester IV, 70 marks shall be for University examination for theory paper and 30 marks for project work.
  - iii. **B. Com. Sem V & VI :-** 40:10 pattern shall be applicable for each theory paper in each semester wherein 40 marks shall be for University Semester end examination and 10 marks for internal assessment.
4. **Weightage:** There shall be 1900 marks for 3 years B. Com. CBCS Program with 148 Credits. 4 Credits for each course with 24 credits for each Semester except for Sem IV 28 Credits.

### 5. Credit distribution chart for B. Com. Program with Course Code :

Course Name	Total Courses(Papers)	Total Credits	% in total course
CC : Core Course	22	88	59%
AECC : Ability Enhancement Compulsory Courses	07	28	19%
GEC : Generic Elective Courses	04	16	11%
DSE : Discipline Specific Elective	4 (out of 44)	16	11%
<b>TOTAL</b>	<b>37</b>	<b>148</b>	<b>100%</b>

### 6. Scheme of Examination –

The Question paper in each Semester for each theory course (paper) for B. Com. Semester I, II, III & IV shall be of 50 marks. The question paper for Environmental Studies for Semester IV shall be of 70 marks for theory and 30 marks for project work. For B. Com. Semester V & VI question paper shall be of 40 marks for each theory course (paper).

#### Internal Assessment:

There shall be continuous Internal Assessment for B.Com. **Sem V & VI**. Internal Examination/ assessment shall be compulsory for all students. If a student fails/remains absent in Internal Examination then candidate have to clear the Internal Examination in subsequent attempt/s in following semester.

**For B. Com. Sem V & VI** – There will be seminar of 10 marks in Semr V and there will be oral examination of 10 marks for Sem VI for each theory course (paper).

**7. Ordinances regarding the examination** – O. B.Com. 2, 3 and 4 shall prevail.

**8. Duration of Semester Examination for each theory paper** - The duration of Semester Examination for each theory course (paper) of 40/50 marks shall be of two hours except Environmental Studies (Semester IV, Examination) which shall be of 3 hours for 70 marks.

**9. Equivalence of papers and chances for the students in previous-Semester pattern** - Two additional chances shall be provided for the repeater students of old B. Com. Part I – Sem I & II. After this the students concerned shall have to appear for the Examination as per this revised CBCS Pattern. Equivalence of papers shall be provided as per revised syllabus for CBCS pattern.

**10. Standard of Passing-** The Standard of passing shall be 35%. For B. Com. Semester I, II, III & IV the student shall have to score 18 marks out of 50 in each theory paper. Only for Environmental Studies (Semester IV, Examination) the Student shall have to score marks 25 marks out of 70 in theory paper and 10 marks out of 30 for project

work. For B. Com. Semester V and VI, the student will have to score 14 marks out of 40 in each theory paper and 4 marks out of 10 in each paper (internal). There shall be a separate head of passing in Theory and Internal Examination. However, ATKT rules shall be made applicable in respect of Theory Paper (University examination) only.

### 11. Gradation Chart :

Marks Obtained	Numerical Grade (Grade Point)	CGPA	Letter Grade
Absent	0 (zero)	-	-
0 – 34	0 to 4	0.0 – 4.99	F (Fail)
35 – 44	5	5.00 – 5.49	C
45 – 54	6	5.50 – 6.49	B
55 – 64	7	6.50 – 7.49	B+
65 – 74	8	7.50 – 8.49	A
75 – 84	9	8.50 – 9.49	A+
85 – 100	10	9.50 – 10.0	O (Outstanding)

#### Note:

1. Marks obtained  $\geq 0.5$  shall be rounded off to next higher digit.
2. The SGPA & CGPA shall be rounded off to 2 decimal points.

### Calculation of SGPA & CGPA

#### 1. Semester Grade Point Average (SGPA)

**SGPA** =  $\frac{\text{Course credits} \times \text{Grade points obtained of a semester}}{\text{Course credits of respective semester}}$

#### 2. Cumulative Grade Point Average (CGPA)

**CGPA** =  $\frac{\text{Total credits of a semester} \times \text{SGPA of respective semester of all semesters}}{\text{Total course credits of all semesters}}$

**12. Result** - The result of each semester shall be declared as Pass or Fail with grade/ grade points.

**13. Revised Rules** - These revised rules shall be gradually implemented with effect from the academic year 2018 -19 for B.Com. Degree program. However the existing (i.e. pre-revised) rules shall remain in force for the students of old semester pattern during the transition period.

**Choice Based Credit System (CBCS) pattern**  
**Under Faculty of Commerce & Management**  
**Implemented from the academic year 2018-19**

Sr. No.	Rules and Regulations
<b>CBCS R. B. Com. 1</b>	The 3 year B. Com. CBCS Program shall consist of 6 semesters each of 6 months duration. Semester Examination shall be held at the end of each semester.
<b>CBCS R. B. Com. 2</b>	Structure of Programme: (i) Structure - I for B. Com. Sem I & II (ii) Structure - II for B. Com. Sem III & IV (iii) Structure - III for B. Com. Sem V & VI
<b>CBCS R. B. Com. 3</b>	<b>List of courses:</b> (i) for B. Com. Sem I & II (ii) for B. Com. Sem III & IV (iii) for B. Com. Sem V & VI
<b>CBCS R. B. Com. 4</b>	<b>Non-Credit Courses:</b> <b>(A) Compulsory Civic Courses (CCC)</b> For Sem I and Sem V there shall be Compulsory Civic Courses under <b>self study mode</b> which are as follows: <b>Sem I: CCC – I :</b> Democracy, Elections and Good Governance <b>Sem V: CCC – II :</b> Constitution of India and Local Self Government  <b>(B) Skill Development Courses (SDC)</b> For Sem II and Sem VI there shall be Compulsory Skill Development Courses under self study mode which are as follows: <b>Sem II: SDC – I :</b> Any one from following (i) to (v) i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & Proposal Writing <b>Sem VI: SDC – II:</b> Any one from following (vi) to (x) vi) Interview & Personal Presentation Skill, vii) Entrepreneurship Development Skill, viii) Travel & Tourism, ix) E-Banking & Financial Services, x) RTI & Human Right Education (HRE), IPR & Patents

	<p>(c)</p> <ul style="list-style-type: none"> <li>• <i>These courses are of Self Study mode. The study material of all above courses will be made available on University website.</i></li> <li>• <i>The Examination of each of the course will be of 50 marks having 25 MCQ questions. Minimum 20 marks (40%) out of 50 are required for passing.</i></li> <li>• <i>The duration of examination shall be 60 minutes.</i></li> <li>• <i>The examination shall be conducted at the college level.</i></li> <li>• <i>The list of all candidates along with marks is to be submitted by the Principle to the University.</i></li> <li>• <i>The degree will be awarded only after successful completion of these courses.</i></li> <li>• <i>The performance of students regarding Non-Credit courses (CCC &amp; SDC) shall be separately mentioned in Result-sheet as Pass or fail.</i></li> </ul>
<b>CBCS R. B. Com. 5</b>	<p><b>Equivalence of papers and chances for the students in previous-Semester pattern –</b></p> <p>Two additional subsequent chances shall be provided for the repeater students of old B. Com. Part I – Sem I &amp; II. After this the students concerned <b>shall</b> have to appear for the Examination as per this revised CBCS Pattern. Equivalence of papers shall be provided as per revised syllabus for CBCS pattern.</p>
<b>CBCS R. B. Com. 6</b>	<p>The detailed syllabi for the various courses under CBCS pattern shall be as shown in the appendix and shall be subject to such revision, modification etc. as may be made by the Academic Council from time to time on the recommendation of the Boards of Studies in different courses. The Text-Books and Reference Books for the various courses shall be those as prescribed by the Academic Council from time to time on the recommendations of the respective Boards of Studies.</p>
<b>CBCS R. B. Com. 7</b>	<p>The medium of instruction for the Three Year (Six Semester) B.Com. Degree Program may be either Marathi or English. A candidate shall have an option of answering question papers at B.Com. Examination, either in English or in Marathi in all courses except English, Accountancy and Business Statistics.</p>
<b>CBCS R. B. Com. 8</b>	<ol style="list-style-type: none"> <li>i. The Principal of the college may permit a student to change his optional subject/ subjects in the first term only before submission of dully filled University Examination form.</li> <li>ii. If a candidate wishes to change the elective (DSE) course (subject) at the B.Com. Sem V examination, student will have to keep two additional terms for the changed course (subject).</li> <li>iii. If a candidate fails in the elective (DSE) course (subject) at the B.Com.</li> </ol>

	Sem V & VI examination and wish to change elective (DSE) course (subject), student will have to keep two additional terms for the changed course (subject).
<b>CBCS R. B. Com. 9</b>	The Principal of the college has to certify the attendance and the examination form of the candidate as per the Ordinance O. 31 and O. 37. A candidate has to submit University examination form as per the schedule and dates prescribed by the University for every Examination.
<b>CBCS R. B. Com. 10</b>	<p>The Scheme of the Physical Education has been made operative for B. Com. Part-I.</p> <p>The benefit of marks, obtained by the students in Physical Education Tests (of 10 marks) conducted by the University authorities shall be as under :</p> <ol style="list-style-type: none"> <li>1. If a student fails in up to four heads of passing of University examination (Theory / Practical) and having passed in all the remaining heads of passing, the marks obtained by him in the Physical Education Test shall be added to maximum up to four heads of passing in which he has failed as the case may be. A student getting the benefit of Physical Education marks should not be given advantage of any other Ordinance. The Physical Education Marks shall not be considered for the award of Class and for deciding merit.</li> <li>2. If as a result of addition of Physical Education marks a student does not pass the examination the marks obtained by him in Physical Education shall not be considered.</li> <li>3. The marks of Physical Education obtained by the unsuccessful students at the B. Com. Part-I semester Examination shall be carried forward for their subsequent attempt/s.</li> <li>4. The marks obtained in Physical Education shall not be considered for earning exemption in a subject of head of passing, but the marks will be carried forward for availing the benefit at the subsequent attempts.</li> <li>5. The marks secured by the students under the Physical Education scheme shall be added to the total of his marks in the Examination irrespective of the fact of his passing or failure in the examination. The Physical Education marks shall be shown as "Total +P. E. Marks".</li> <li>6. The Physical Education Test shall be conducted in the Second Semester.</li> </ol>
<b>CBCS R. B. Com. 11</b>	The B.Com. Part-I, II and III Semester Examinations shall be held twice in a year in April / May and October / November.
<b>CBCS R. B. Com. 12</b>	<ol style="list-style-type: none"> <li>a) A candidate desires to seek B. Com. Degree in another course (subject), shall be permitted to do so. Such candidate may appear at B. Com. Sem V &amp; VI Examination on the submission for fresh admission. Such a candidate need not appear for core courses (CC).</li> <li>b) The Candidate as above (in clause 'a') shall not be eligible for a second degree and a class, a prize, scholarship, medal or any other award. The</li> </ol>

	<p>candidate will get the benefit of new degree in new course (subject) only if candidate surrenders his first degree. <i>This rule shall be applicable retrospectively.</i></p>
<b>CBCS R. B. Com. 13</b>	<p>a) The result of the B.Com. Sem I &amp; II examination shall be declared publicly in two categories (i) candidates who have passed the B. Com. Sem I &amp; II examination and (ii) candidates who are allowed to proceed to the B.Com. Sem III &amp; IV</p> <p>b) The result of the B.Com. Sem III &amp; IV examination shall be declared publicly in two categories. (i) candidate who have passed the B.Com. Sem III &amp; IV examination in addition to the remaining papers, if any of previous examination, (ii) candidates who are allowed to proceed to the next Semester.</p> <p>c) (i) If a candidate fails in all the courses (subject heads) of passing of Sem I shall be allowed to proceed to Sem II.  (ii) If a candidate fails in all the courses (subject heads) of passing of Sem III shall be allowed to proceed to Sem IV.  (iii) If a candidate fails in all the courses (subject heads) of passing of Sem V shall be allowed to proceed to Sem VI.  (iv) No candidate shall be allowed to proceed to Sem V unless candidate has cleared Sem I &amp; II in all courses (Subjects).  (v) ATKT rules are applicable for 2<sup>nd</sup> and 4<sup>th</sup> Sem.</p>
<b>CBCS R. B. Com. 14</b>	<p>(A) The Results of the Examination will be declared on the basis of marks obtained, Grade points obtained, Credit points, Status, Percentage of marks, Result, SGPA &amp; CGPA with numerical grade point and letter grade. The list of Courses, course code, Paper number of programme, numerical grade &amp; letter grade table and calculation of SGPA and CGPA table shall be mentioned on the backside of mark-sheet.</p> <p>(B) The result of B.Com. Program (Sem I to VI) shall be declared in Grades by considering SGPA &amp; CGPA (with percentage) based on the performances of all the courses at respective semesters. The award of scholarships and prizes for the B.Com. Program shall be determined on the basis of the aggregate performance of the candidate at Sem I to VI examination.</p>
<b>CBCS R. B. Com. 15</b>	<p><b>Standard of Passing:</b></p> <p>To pass the B.Com. Degree Examination, a candidate shall be required to pass in Semester I, II, III, IV, V &amp; VI Examinations.</p> <p>A. i) To pass the each semester of B.Com. Sem I &amp; II Examination a candidate shall be required to obtain a minimum of 35% of the total marks in each head of passing i. e. 18 marks out of 50.</p>



	<p>ii) To Pass each Semester of the B. Com. Sem III &amp; IV Examination a candidate shall be required to obtain a minimum of 35% of the total marks in each head in passing i.e. 18 marks out of 50 (except Environmental Studies).</p> <p>For Environmental Studies a candidate shall be required to obtain minimum 25 marks out of 70 for theory paper examination &amp; minimum 10 marks out of 30 for Project work. There shall be separate head of passing for Theory and Project work examinations.</p> <p>iii) To pass each Semester Examination a candidate shall be required to obtain a minimum of 35% of the total marks.</p> <p>A Candidate shall have to obtain 14 marks out of 40 for university examination i.e. theory and 4 marks out of 10 in the internal examination in Sem V &amp; VI. If the candidate fails/absent in internal examination then candidate has to pass the internal examination in subsequent attempt/s in course tenure.</p> <p><b>(B) Those of the successful candidates who obtain 45% or more of the aggregate marks in Parts-I, II&amp; III semester Examinations, (i.e. sem.I to VI) shall be declared to have passed the B.Com. Degree Examinations in Second Class and those obtaining 60% or more of the aggregate marks in Parts-I, II &amp; III Examinations (i.e.sem. I to VI) shall be declared to have passed the B.Com. Degree Examinations in First Class and those obtaining 70% or more of the aggregate marks in Parts-I, II &amp; III (i.e.sem. I to VI) shall be declared to have passed the B.Com. Degree Examination in First Class with Distinction.</b></p> <p><b>C) A.T.K.T.: A candidate fail in maximum four heads of passing in Sem I &amp; II shall be allowed to admit in Sem III.</b></p> <p><b>A candidate fail in maximum four heads of passing in Sem III &amp; IV shall be allowed to admit in Sem V.</b></p> <p><b>However for admission to B.Com. Part-III, a candidate has to pass in all heads of passing of B.Com. Part-I (Sem. I &amp; II) examination.</b></p> <p><b>Internal Examination will be compulsory for all students. If the student fails/absent in Internal Examination then candidate will have to pass the Internal Examination in subsequent attempt. There will be a separate head of passing in Internal, University theory/practical Examination. However, ATKT rules shall be made applicable in respect of theory only.</b></p>
<b>CBCS R. B. Com. 16</b>	<p><b>Improvement:</b> A candidate who has passed in optional courses (Subjects) shall be allowed to appear again in that head in immediate subsequent Semester after cancellation of candidate's earlier performance. This provision is made only for third year Sem</p>

	V & VI in the same courses (subjects) before taking concerned degree.
<b>CBCS R. B. Com. 17</b>	<p>A candidate who has satisfactorily kept one term in any of the Universities in the State of Maharashtra for B.Com. Sem I examination shall be allowed to join for the Sem II of the B.Com. Program, provided candidate has to clear for the all courses (papers) of Sem I.</p> <p>However, if the candidate's previous programme is not under CBCS, the above provision will not be applicable.</p>
<b>CBCS R. B. Com. 18</b>	<p>A candidate passing Part – I or II Semester Examinations of the B.Com. Degree programme under CBCS of the other Statutory Universities in State of Maharashtra can take admission to next semester of Shivaji University and the marks of earlier semesters of previous Statutory University be converted in proportion to Shivaji University, Marks structure and grades be awarded accordingly.</p> <p>However, if the candidate's previous programme is not under CBCS, the above provision will not be applicable.</p> <p>Those students who have obtained A.T.K.T., at any examinations of other Statutory Universities and desire to migrate to Shivaji University for pursuing their further studies will have to clear the failed subjects of A.T.K.T. from the previous University.</p> <p>In case of such students the previous University should issue the migration Certificate and also allow them to appear for the Examination in the failed subject of A.T.K.T. while they pursue their studies in Shivaji University.</p>
<b>CBCS R. B. Com. 19</b>	<p><b>Exemption of courses (subjects)</b></p> <p>a) A candidate who wish to admit for B.Com. and already passed Bachelor of Arts and Bachelor of Science of this University with English, Marathi OR Kannada OR Urdu OR Hindi course (subject) are not necessary to appear B.Com. Examination again for same subject.</p> <p>b) A Bachelor of Law (L.L.B.) of any other statutory University in the State of Maharashtra passing candidate be exempted for the course Business Regulatory Framework at B.Com. Sem V &amp; VI.</p> <p>A candidate claiming exemptions as stated above shall not be eligible for a Class, however a candidate appearing for all the courses (papers) of B.Com. Sem I to VI shall be eligible for a class.</p> <p>However, the above mentioned rule shall not be applicable for other University student.</p>
<b>CBCS R. B. Com. 20</b>	<p><b>Exemption of courses (subjects)</b></p> <p>a) A candidate who wish to admit for B.Com. and already passed Bachelor of Arts of this University with Economics course (subject) are not</p>

	<p>necessary to appear B.Com. Examination again for same subject.</p> <p>A candidate claiming exemptions as stated above shall not be eligible for a Class, however a candidate appearing for all the courses (papers) of B.Com. Sem I to VI shall be eligible for a class.</p> <p>However, the above mentioned rule shall not be applicable for other University student.</p> <p><b>(Note:</b> The concessions given above are on reciprocal basis).</p>
<b>CBCS R. B. Com. 21</b>	<p>a) A candidate who has appeared for the B.Com. Sem I &amp; II or Sem III &amp; IV Examination of this or any other University as an external/<u>distance mode</u> will not be allowed for B. Com. Sem III &amp; IV or Sem V &amp; VI respectively to join the college as a regular candidate.</p> <p>b) A candidate who has appeared for the B.Com. Sem I &amp; II or Sem III &amp; IV Examination of this or any other University as a regular candidate will be allowed for B. Com. Sem III &amp; IV or Sem V &amp; VI respectively to join distance mode. Such candidate shall be treated as an external/distance mode candidate.</p> <p>c) Deleted and already taken in R. B. Com. 15 : Standard of Passing.</p> <p>d) A Candidate who has passed in any of the heads of passing shall not be allowed to appear again in that head only for Sem I to IV and compulsory courses of Sem V &amp; VI.</p> <p>e) 'Practical' will be a separate head of passing.</p> <p>f) For the students from distance mode, the same syllabi, examination system (such as semester system, scheme of marking, schedule of examination and Question Paper) shall be made applicable as per regular B.Com. CBCS Program. Those students registered as external / distance mode candidate shall have to submit <b>one home assignment</b> for each course (paper) (in each semester) carrying 10 marks as a part of internal evaluation system, to the respective Study Centre notified and approved by the university.</p>
<b>CBCS R. B. Com. 22</b>	<p>a) The course of studies and syllabi and books prescribed / recommended under it and the standard for passing at the examination for the Degree of Commerce for candidates appearing for the same as external /<u>distance mode</u> candidates shall be identical with those for the regular students of the University appearing for the examination.</p> <p>b) An external/<u>distance mode</u> student shall not offer at an examination any of the courses (subjects) for which there is no teaching provision in any of the affiliated colleges of the University.</p>

### CBCS R.B.Com. 2: i) Structure of B. Com. Programme Sem I & II

STRUCTURE - I									
SEMESTER- I - DURATION: 06 MONTHS									
S r. N o.	Course Type	TEACHING SCHEME			PRACTICAL (PR)	EXAMINATION SCHEME			PRACTICAL
		THEORY (TH)				THEORY			
		No. of lectur es	Hours	Credits	-	PAPER HOURS	MAX	MIN	-
1	CC – A1	4	3.2	4	NO PRACTICAL	2	50	18	NO PRACTICAL
2	CC – A3	4	3.2	4		2	50	18	
3	CC – A5	4	3.2	4		2	50	18	
4	GEC –A	4	3.2	4		2	50	18	
5	GEC – B	4	3.2	4		2	50	18	
6	AECC- C1	4	3.2	4		2	50	18	
Total		24	19.2	24	-	-	300	-	-
SEMESTER- II - DURATION: 06 MONTHS									
S r. N o.	Course Type	TEACHING SCHEME			PRACTICAL (PR)	EXAMINATION SCHEME			PRACTICAL
		THEORY (TH)				THEORY			
		No. of lectur es	Hour s	Credit s	-	PAPER HOURS	MAX	MIN	-
1	CC – A2	4	3.2	4	NO PRACTICAL	2	50	18	NO PRACTICAL
2	CC – A4	4	3.2	4		2	50	18	
3	CC – A6	4	3.2	4		2	50	18	
4	GEC –A	4	3.2	4		2	50	18	
5	GEC – B	4	3.2	4		2	50	18	
6	AECC- C2	4	3.2	4		2	50	18	
Total		24	19.2	24	-	-	300	----	-
Grand Total Sem I + II		48	38.4	48	-	-	600	----	-

**CC :** Core Course : All courses (subjects) are compulsory.

**GEC :** Generic Elective Course : Candidate has to select any one course (subject) from Group A & one course (subject) from Group B.

**AECC :** Ability Enhancement Compulsory Course : All courses (subjects) are compulsory.

**(A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC)**

**For Sem I: CCC – I :** Democracy, Elections and Good Governance

**(B) Non-Credit Self Study Course : Skill Development Courses (SDC)**

**For Sem II: SDC – I :** Any one from following (i) to (v)

i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing

## ii) Structure of B. Com. Programme Sem III & IV

STRUCTURE - II									
SEMESTER- III - DURATION: 06 MONTHS									
Sr. No.	TEACHING SCHEME					EXAMINATION SCHEME			
	THEORY (TH)				PRACTICAL (PR)	THEORY			PRACTICAL
	Course Type	No. of lectures	Hours	Credits	-	PAPER HOURS	MAX	MIN	-
1	CC-B1	4	3.2	4	NO PRACTICAL	2	50	18	NO PRACTICAL
2	CC-B3	4	3.2	4		2	50	18	
3	CC-B5	4	3.2	4		2	50	18	
4	CC-B7	4	3.2	4		2	50	18	
5	AECC -C3	4	3.2	4		2	50	18	
6	AECC -C5	4	3.2	4		2	50	18	
7	AECC -EVS	-	-	-	-	-	--	-	--
<b>Total</b>		<b>24</b>	<b>19.2</b>	<b>24</b>	<b>-</b>	<b>TOTAL MARKS</b>	<b>300</b>	<b>-</b>	<b>-</b>
SEMESTER- IV - DURATION: 06 MONTHS									
Sr. No.	TEACHING SCHEME					EXAMINATION SCHEME			
	THEORY (TH)				PRACTICAL (PR)	THEORY			PRACTICAL
	Course Type	No. of lectures	Hours	Credits	-	PAPER HOURS	MAX	MIN	-
1	CC-B2	4	3.2	4	NO PRACTICAL	2	50	18	NO PRACTICAL
2	CC-B4	4	3.2	4		2	50	18	
3	CC-B6	4	3.2	4		2	50	18	
4	CC-B8	4	3.2	4		2	50	18	
5	AECC -C4	4	3.2	4		2	50	18	
6	AECC -C6	4	3.2	4		2	50	18	
7	AECC -EVS	4	3.2	4		3	70 + 30	25+10	
<b>Total</b>		<b>28</b>	<b>22.4</b>	<b>28</b>	<b>-</b>	<b>-</b>	<b>400</b>	<b>-</b>	<b>-</b>
<b>Grand Total</b>		<b>52</b>	<b>41.6</b>	<b>52</b>	<b>-</b>	<b>-</b>	<b>700</b>	<b>-</b>	<b>-</b>

**CC** : Core Course : All courses (subjects) are compulsory.

**AECC** : Ability Enhancement Compulsory Course : All courses (subjects) are compulsory.

**AECC – EVS** : Ability Enhancement Compulsory Course - Environmental Studies

### iii) Structure of B. Com. Programme Sem V & VI

STRUCTURE - III											
SEMESTER- V - DURATION: 06 MONTHS											
Sr. No.	TEACHING SCHEME					EXAMINATION SCHEME					
	THEORY (TH)				PRACTICAL (PR)	THEORY			Internal Exam.		
	Course Type	No. of lectures	Hours	Credits	-	PAPER HOURS	MAX	MIN	Internal	MAX	MIN
1	CC-C1	4	3.2	4	NO PRACTICAL	2	40	14	Seminar	10	04
2	CC-C3	4	3.2	4		2	40	14		10	04
3	CC-C5	4	3.2	4		2	40	14		10	04
4	CC-C7	4	3.2	4		2	40	14		10	04
5	DSE - I	4	3.2	4		2	40	14		10	04
6	DSE -II	4	3.2	4		2	40	14		10	04
<b>Total</b>		<b>24</b>	<b>19.2</b>	<b>24</b>		<b>-</b>	<b>240</b>	<b>-----</b>	60 Theory + Internal 240 + 60 = 300		
SEMESTER- VI - DURATION: 06 MONTHS											
Sr. No.	TEACHING SCHEME					EXAMINATION SCHEME					
	THEORY (TH)				PRACTICAL (PR)	THEORY			Internal Exam		
	Course Type	No. of lectures	Hours	Credits	-	PAPER HOURS	MAX	MIN	Internal	MAX	MIN
1	CC-C2	4	3.2	4	NO PRACTICAL	2	40	14	Internal Exam	10	04
2	CC-C4	4	3.2	4		2	40	14		10	04
3	CC-C6	4	3.2	4		2	40	14		10	04
4	CC-C8	4	3.2	4		2	40	14		10	04
5	DSE - III	4	3.2	4		2	40	14		10	04
6	DSE - IV	4	3.2	4		2	40	14		10	04
<b>Total</b>		<b>24</b>	<b>19.2</b>	<b>24</b>		<b>-</b>	<b>240</b>	<b>-----</b>	60 Theory + Internal 240 + 60 = 300		
<b>Grand Total</b>		<b>48</b>	<b>38.4</b>	<b>48</b>	<b>-</b>	<b>-</b>	<b>480</b>	<b>----</b>	Theory + Internal 480 + 120 = 600		

**CC** : Core Course : All courses (subjects) are compulsory

**DSE** : Discipline Specific Elective : Candidate has to select any one course (subject) which consists of Paper I to IV. Paper I & II for Sem V and Paper III & IV for Sem VI.

**(A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC)**

**For Sem V: CCC – II** : Constitution of India and Local Self Government

**(B) Non-Credit Self Study Course : Skill Development Courses (SDC)**

**For Sem VI: SDC – II:** Any one from following (vi) to (x)

vi) Interview & Personal Presentation Skill, vii) Entrepreneurship Development Skill, viii) Travel & Tourism, ix) E-Banking & Financial Services, x) RTI & Human Right Education (HRE), IPR & Patents

### CBCS R. B. Com. 3 : List of Courses (Subject)

(i) For B. Com. Sem I & II

Semester I		Semester II	
Course Code	Course (Subject)	Course Code	Course (Subject)
<b>Core course</b>			
<b>CC-A1</b>	Micro Economics Paper- I	<b>CC-A2</b>	Micro Economics Paper- II
<b>CC-A3</b>	Management Principles & Applications Paper- I	<b>CC-A4</b>	Management Principles & Applications Paper- II
<b>CC-A5</b>	Financial Accounting Paper-I	<b>CC-A6</b>	Financial Accounting Paper-I I
<b>Group A</b>			
<b>GEC-A1</b>	Principles of Marketing Paper- I	<b>GEC- A2</b>	Principles of Marketing Paper- II
<b>GEC-A3</b>	History of Civilization Paper- I	<b>GEC-A4</b>	History of Civilization Paper- II
<b>GEC-A5</b>	Marathi Paper- I	<b>GEC- A6</b>	Marathi Paper- II
<b>GEC-A7</b>	Global Finance Paper- I	<b>GEC- A8</b>	Global Finance Paper- II
<b>GEC-A9</b>	Hindi Paper- I	<b>GEC- A10</b>	Hindi Paper- II
<b>GEC-A11</b>	Urdu Paper- I	<b>GEC- A12</b>	Urdu Paper- II
<b>GEC-A13</b>	Kannada Paper- I	<b>GEC- A14</b>	Kannada Paper- II
<b>Group B</b>			
<b>GEC- B1</b>	Business Mathematics Paper- I	<b>GEC-B2</b>	Business Mathematics Paper- II
<b>GEC- B3</b>	Insurance Paper- I	<b>GEC-B4</b>	Insurance Paper- II
<b>GEC- B5</b>	Geography Paper I	<b>GEC-B6</b>	Geography Paper II
<b>GEC- B7</b>	Foreign Trade Paper – I	<b>GEC-B8</b>	Foreign Trade Paper – II
<b>Ability Enhancement Compulsory Course</b>			
<b>AECC-C1</b>	Business Communication Paper- I	<b>AECC- C2</b>	Business Communication Paper- II

#### Note :

1. **CC** : Core Course : All courses (subjects) are compulsory.
2. **GEC** : Generic Elective Course : Candidate has to select any one course (Subject) from Group A & B.
3. **AECC** : Ability Enhancement Compulsory Course : All courses (subjects) are compulsory.

(ii) For B. Com. Sem III & IV

<b>Semester III</b>		<b>Semester IV</b>	
<b>Course Code</b>	<b>Course (Subject)</b>	<b>Course Code</b>	<b>Course (Subject)</b>
<b>Core course</b>			
<b>CC-B1</b>	Corporate Accounting Paper- I	<b>CC-B2</b>	Corporate Accounting Paper- II
<b>CC-B3</b>	Fundamentals of Entrepreneurship Paper- I	<b>CC-B4</b>	Fundamentals of Entrepreneurship Paper- II
<b>CC-B5</b>	Money and Financial System Paper- I	<b>CC-B6</b>	Money and Financial System Paper- II
<b>CC-B7</b>	Macro Economics Paper- I	<b>CC-B8</b>	Macro Economics Paper- II
<b>Ability Enhancement Compulsory Course</b>			
<b>AECC-C3</b>	Business Communication Paper- III	<b>AECC-C4</b>	Business Communication Paper- IV
<b>AECC-C5</b>	Business Statistics Paper- I	<b>AECC-C6</b>	Business Statistics Paper- II
<b>AECC-EVS</b>	Environmental Studies	<b>AECC-EVS</b>	Environmental Studies

**Note :**

1. **CC** : Core Course : All courses (subjects) are compulsory.
2. **AECC** : Ability Enhancement Compulsory Course : All courses (subjects) are compulsory.
3. **AECC – EVS** : Ability Enhancement Compulsory Course – Environmental Studies



(iii) For B. Com. Sem V & VI

Semester V		Semester VI	
Course Code	Course (Subject)	Course Code	Course (Subject)
<b>Core course</b>			
<b>CC-C1</b>	Modern Management Practices Paper- I	<b>CC-C2</b>	Modern Management Practices Paper- II
<b>CC-C3</b>	Business Regulatory Framework Paper- I	<b>CC-C4</b>	Business Regulatory Framework Paper- II
<b>CC-C5</b>	Co – Operative Development Paper- I	<b>CC-C6</b>	Co – Operative Development Paper- II
<b>CC-C7</b>	Business Environment Paper- I	<b>CC-C8</b>	Business Environment Paper- II
<b>Discipline Specific Elective</b>			
<b>DSE-A1</b>	Advanced Accountancy Paper- I	<b>DSE-A3</b>	Advanced Accountancy Paper- III
<b>DSE-A2</b>	Advanced Accountancy Paper- II	<b>DSE-A4</b>	Advanced Accountancy Paper- IV
<b>DSE-B1</b>	Industrial Management Paper- I	<b>DSE-B3</b>	Industrial Management Paper- III
<b>DSE-B2</b>	Industrial Management Paper- II	<b>DSE-B4</b>	Industrial Management Paper- IV
<b>DSE-C1</b>	Advanced Costing Paper - I	<b>DSE-C3</b>	Advanced Costing Paper - III
<b>DSE-C2</b>	Advanced Costing Paper - II	<b>DSE-C4</b>	Advanced Costing Paper - IV
<b>DSE-D1</b>	Taxation Management Paper- I	<b>DSE-D3</b>	Taxation Management Paper- III
<b>DSE-D2</b>	Taxation Management Paper- II	<b>DSE-D4</b>	Taxation Management Paper- IV
<b>DSE-E1</b>	Public Finance Paper- I	<b>DSE-E3</b>	Public Finance Paper- III
<b>DSE-E2</b>	Public Finance Paper- II	<b>DSE-E4</b>	Public Finance Paper- IV
<b>DSE-F1</b>	Insurance Paper- I	<b>DSE-F3</b>	Insurance Paper- III
<b>DSE-F2</b>	Insurance Paper- II	<b>DSE-F4</b>	Insurance Paper- IV
<b>DSE-G1</b>	Marketing Paper- I	<b>DSE-G3</b>	Marketing Paper- III
<b>DSE-G2</b>	Marketing Paper- II	<b>DSE-G4</b>	Marketing Paper- IV
<b>DSE-H1</b>	Advanced Banking Paper- I	<b>DSE-H3</b>	Advanced Banking Paper- III
<b>DSE-H2</b>	Advanced Banking Paper- II	<b>DSE-H4</b>	Advanced Banking Paper- IV
<b>DSE-I 1</b>	Rural Economics and Co-Operation Paper- I	<b>DSE-I 3</b>	Rural Economics and Co-Operation Paper- III
<b>DSE-I 2</b>	Rural Economics and Co-Operation Paper- II	<b>DSE-I 4</b>	Rural Economics and Co-Operation Paper- IV
<b>DSE-J1</b>	Advanced Statistics Paper- I	<b>DSE-J3</b>	Advanced Statistics Paper- III
<b>DSE-J2</b>	Advanced Statistics Paper- II	<b>DSE-J4</b>	Advanced Statistics Paper- IV
<b>DSE-K1</b>	E-Commerce Paper- I	<b>DSE-K3</b>	E-Commerce Paper- III
<b>DSE-K2</b>	E-Commerce Paper- II	<b>DSE-K4</b>	E-Commerce Paper- IV

**Note :**

- CC :** Core Course : All courses (subjects) are compulsory.
- DSE :** Discipline Specific Elective : Candidate has to select any one course (subject) which consists of Paper I to IV. Paper I & II for Sem V and Paper III & IV for Sem VI.

## 2. Ordinance:

<p><b>O. B. Com. 1</b></p>	<p>i) The students passing the Higher Secondary School Certificate Examination with Commerce stream or Vocational subjects with Commerce stream conducted by the Maharashtra State Board of Higher Secondary Education Pune, shall be allowed to enter upon the B.Com. Part-I Course.</p> <p style="text-align: center;">OR</p> <p>ii) An Examination of any other statutory University or an examining Body recognised as equivalent thereto.</p> <p>2. No candidate shall be allowed to the B.Com. Part-I Examination unless he has satisfactorily kept two terms for the course at a College affiliated to this University.</p>
<p><b>O. B. Com. 2</b></p>	<p>i) No candidate shall be allowed to enter upon the course for the B.Com. Part-II Examination unless he has passed the B.Com. Part-I Examination or the First Year Examination of the Three Year Integrated B.Com. Degree Course of this University or an examination of any other Statutory University recognised as equivalent thereto. However a candidate passing in all heads of passing or a candidate passing in all heads of passing except four heads of University (Theory/ Practical ) Examination (Sem.-I &amp; II taken together)of this University shall be permitted to enter upon the course of B.Com.Part-II.</p> <p>ii) No candidate shall be admitted to B.Com.Part-II Examination unless he has satisfactorily kept two terms for the same at a College affiliated to this University. This provision shall not be made applicable to those students who have registered for B.Com. degree course under distance mode.</p> <p>(Note:-Internal Examination will be compulsory for all students. If the student fails/absent in internal examination then he/she will have to clear the internal examination in subsequent attempt/s in following semester. There will be a separate head of passing in Internal, Theory and Practical head of passing. However ATKT rules shall be made applicable in respect of Theory/ Practical head of passing only.</p>
<p><b>O. B. Com.3</b></p>	<p>i) No candidate shall be allowed to enter upon the course for the B.Com. -III (Sem-V &amp; VI) examination unless he has passed the B.Com. –II (Sem.-III &amp; IV) examination of this University or an examination of any other Statutory University recognised as equivalent thereto. However a candidate passing in all heads of passing or a candidate passing in all heads of passing except four heads of University (Theory/ Practical ) Examination of B.Com.-II (Sem-III &amp; IV) taken together) of this University shall be permitted to enter upon the course of B.Com. Part-III.</p> <p><b>For admission to B.Com. Part-III examination or for keeping term for B.Com. Part-III examination, a candidate shall have to pass in all heads of passing of B.Com. Part-I (Sem. I &amp; II) examination.</b></p> <p>ii) No candidate shall be admitted to the B.Com. Part-III examination unless he has satisfactorily kept two terms for the same at a college affiliated to this University. This provision shall not be made applicable to those students who have registered for B.Com. degree course under distance mode.</p>
<p><b>O. B. Com. 4</b></p>	<p>The fee for admission to the B.Com. Part-I, Part-II and Part-III shall be as prescribed by the university from time to time.</p>



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 FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094  
 शिवाजी विद्यापीठ, कोल्हापूर – 416004.  
 दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)  
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref./SU/BOS/Science/4749

Date:- 01/06/2018

The Principal  
 All Affiliated Science (B.Sc.) Colleges,  
 Shivaji University,  
 Kolhapur.

Subject: Regarding Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Sc. Part –I, II, III (Sem I & VI) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that University authorities have accepted and granted approval to Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Sc. Part- I , II, III (Sem. I & VI ) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

This Guidelines, Rules, Regulation, Structure and Standard of Passing shall be implemented from academic year 2018-2019 (i.e. from June 2018 onwards). A soft copy containing Guidelines, Rules, Regulation, Structure and Standard of Passing is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus )

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl: As above

Copy to;

- 1 Dean, Faculty of Science and Technology
  - 2 Chairman, BOS & Ad-hoc Bords under Faculty of Science and Technology
  - 3 Appointment Section
  - 4 P.G. Admission Section
  - 5 B.Sc. Section
  - 6 Affiliation Section (U.G.)
  - 7 Computer Centre
  - 8 Eligibility Section
  - 9 Distan Education
- } for information and necessary action.



# **Shivaji University, Kolhapur**

**Choice Based Credit System (CBCS)**

**Bachelor of Science (B. Sc.) Program**

**Under Faculty of Science & Technology**

(To be implemented from Academic Year 2018-19)

**Shivaji University, Kolhapur**  
**Choice Based Credit System (CBCS)**  
**Bachelor of Science (B. Sc.) Program**  
**Under the Faculty of Science & Technology**  
**Regulations and Guidelines**

(To be implemented from Academic Year 2018-19)

1. **Implementation of Regulations & Guidelines:** The Regulations & guidelines shall be implemented gradually as mentioned below –
  - a) B.Sc. Part – I from Academic year 2018- 19
  - b) B.Sc. Part – II from Academic year 2019- 20
  - c) B.Sc. Part – III from Academic year 2020- 21
2. **Eligibility Criteria:** As per Ordinance – O. B. Sc. 1
3. **Duration and Pattern of program:** The total duration of B. Sc. Program will be of 3 years. The pattern of CBCS will be of semester type. There shall be 6 semesters each of 6 months duration.
4. **Weightage:** There shall be 2800 marks for 3 years B. Sc. CBCS Program with 140 Credits.
  - a) **B.Sc. Part – I (Sem I & II) :**  
 For B. Sc. Part I total Credits shall be 52 with 26 Credits for each Semester, of these; there shall be 18 Credits for theory and 8 credits for practical per semester.
    - I. There shall be Ability Enhancement Compulsory Course (subject) (hereafter termed as AECC) with Paper A for Sem I and Paper B for Sem II each of 50 marks, as compulsory English course.
    - II. There shall be 4 Discipline Specific Core Courses (subjects) (hereafter termed as DSC) per semester.
    - III. There shall be 2 theory papers each of 50 marks for each DSC.
    - IV. There shall be 1 practical of 50 marks for each DSC.

**b) B.Sc. Part –II (Sem III & IV) :**

For B. Sc. Part II total Credits shall be 52 with 28 Credits for Sem III and 24 Credits for Sem IV. For Sem III there shall be 16 Credits for

theory and 12 credits for practical and for Sem IV there shall be 12 credits for theory and 12 credits for practical.

- I. There shall be One AECC with Paper C (Theory – 70 marks) and Paper D (Project – 30 marks) as compulsory Environmental Studies course. The examination shall be conducted at the end of Sem IV. The Credits of the Environmental Studies course shall be assigned at the end of Sem IV.
- II. There shall be 3 DSC (subjects) per semester.
- III. There shall be 2 theory papers each of 50 marks for a DSC.
- IV. There shall be 1 practical of 100 marks for each DSC.

**c) B.Sc. Part –III (Sem V & VI):**

For B. Sc. Part III total Credits shall be 36 with 18 Credits for each Semester of these; there shall be 10 Credits for theory and 8 credits for practical per semester.

- I. There shall be Ability Enhancement Compulsory Course (AECC) with paper E for Sem V and paper F for Sem VI, each of 50 marks [40(Theory) + 10(Internal)] as compulsory English course.
- II. There shall be 4 theory papers each of 50 marks [40 (Theory) +10 (Internal)] as Discipline Specific Elective (DSE).
- III. There shall be 4 practical of each of 50 marks.

**5. Credit distribution chart for B. Sc. Program with Course Code :**

<b>Course Name</b>	<b>Total Courses(Papers)</b>	<b>Total Credits</b>	<b>% in total course</b>
DSC : Discipline Specific Core Course	28	96	67
AECC : Ability Enhancement Compulsory Courses	6	12	14
DSE : Discipline Specific Elective	8	32	19
<b>TOTAL</b>	<b>42</b>	<b>140</b>	<b>100</b>

**6. Ordinances regarding the examination – O. B.Sc. 2, 3 and 4 shall prevail.**

**7. Practical Examinations** – There shall be the annual system of examination in respect of practical examinations for B.Sc. program. The rules for practical examinations shall be as per the letter / circular issued by respective Board of Studies time to time.

**8. Equivalence of papers and chances for the students in previous – semester pattern** – Two additional chances in subsequent semesters shall be provided for the repeater students of B.Sc. After this the concerned students will have to appear for the examination as per this revised scheme.

**9. Standard of passing**

**a) For B.Sc. – I (Sem I & II)**

Except English there shall be combined passing for two theory papers of 50 marks each for each course (subject) i.e. minimum 35 marks out of 100 are required for passing. There shall be separate passing for theory and practical courses. Minimum 18 marks out of 50 are required for passing of practical examination of each course. For English theory exam, minimum 18 marks out of 50 are required for passing. There shall be a Compulsory Civic Course (CCC) entitled “Democracy, Elections and Good Governance” for Sem I and one Skill Development Course (SDC) for Sem II. (CBCS R. B. Sc. 3)

**b) For B. Sc. – II (Sem III & IV)**

Except Environmental Studies, there shall be combined passing for two theory papers of 50 marks each for each course i.e. minimum 35 marks out of 100 are required for passing. There shall be separate passing for theory and practical courses. Minimum 35 marks out of 100 required for passing of practical examination of each course. For Environmental Studies theory paper minimum 25 out of 70 and for project minimum 10 marks out of 30 are required for passing. There shall be separate passing for theory and project examination for Environmental Studies.

**c) For B. Sc. – III (Sem V & VI)**

There shall be separate passing for four theory papers of 50 marks each. Minimum 18 marks out of 50 are required for passing. For practical examination minimum 70 marks out of 200 are required for passing. There shall be separate passing for theory and practical

examinations. For English, minimum 18 marks out of 50 are required for passing.

- d) For the candidate/ student in Sem- V it is compulsory to appear for the paper entitled, “Constitution of India & Local Self Government”. For Sem VI one Skill Development Course (SDC) (CBCS R. B. Sc. 3). The study material of the syllabus for above stated paper will be available on [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

The subject stated above has to be learnt under self-study mode. The examination will have maximum 50 marks and nature of examination will be of multiple choice types. Minimum 20 marks (40%) out of 50 are required for passing.

The examination of above subject has to be conducted locally in the college. The certificate of the successful candidates/ students has to be issued by the Principal of the college. The mark list of passed candidates to be communicated to examination department of Shivaji University, Kolhapur within due time.

The student / candidate who failed to score minimum marks (20 marks) in the said paper will disqualified to claim the degree certificate.

#### 10. Gradation Chart :

Marks Obtained	Numerical Grade (Grade Point)	CGPA	Letter Grade
Absent	0 (zero)	-	-
0 – 34	0 (zero)	0.0 – 4.99	F (Fail)
35 – 44	5	5.00 – 5.49	C
45 – 54	6	5.50 – 6.49	B
55 – 64	7	6.50 – 7.49	B+
65 – 74	8	7.50 – 8.49	A
75 – 84	9	8.50 – 9.49	A+
85 – 100	10	9.50 – 10.0	O (Outstanding)

#### Note:

- Marks obtained  $\geq 0.5$  shall be rounded off to next higher digit.
- The SGPA & CGPA shall be rounded off to 2 decimal points.
- Marks obtained in 50 marks or 200 marks paper shall be converted to 100 marks.

#### Calculation of SGPA & CGPA



1. Semester Grade Point Average (**SGPA**)

$$\text{SGPA} = \frac{\sum(\text{Course credits} \times \text{Grade points obtained}) \text{ of a semester}}{\sum(\text{Course credits}) \text{ of respective semester}}$$

2. Cumulative Grade Point Average (**CGPA**)

$$\text{CGPA} = \frac{\sum(\text{Total credits of a semester} \times \text{SGPA of respective semester}) \text{ of all semesters}}{\sum(\text{Total course credits}) \text{ of all semesters}}$$

**11. Result** - The result of each semester shall be declared as Pass or Fail. However, ATKT rules will be followed for theory and practical passing.

**12.** For Geography, Home Science and I.D.S. subject under the Faculty of Humanities, B.A. rules shall be applicable.

**13. Revised Rules** - These revised rules will be gradually implemented with effect from the academic year 2018 -19 for B.Sc. Part I, 2019-20 for B. Sc. Part II and 2020-21 for B. Sc. Part III. However, the existing (i.e. pre-revised) rules shall remain in force for the students of semester pattern during the transition period.

## Choice Based Credit System (CBCS) pattern

**Under Faculty of Science & Technology  
Implemented from the academic year 2018-19**

<b>Sr. No.</b>	<b>Rules and Regulations</b>
<b>CBCS R. B. Sc. 1</b>	The 3 year B. Sc. CBCS Program shall consist of 3 parts (Part I, II and III) consisting of 2 semesters each. Semester Examination for theory papers shall be held at the end of each semester. The Practical Examination shall be held at the end of Part I/ II/ III examination.
<b>CBCS R. B. Sc. 2</b>	<p>The Scheme of the Physical Education has been made operative for B. Sc. Part-I.</p> <p>The benefit of marks, obtained by the students in Physical Education Tests (of 10 marks) conducted by the University authorities shall be as under :</p> <ol style="list-style-type: none"> <li>1. If a student fails in up to four heads of passing of University examination (Theory / Practical) and having passed in all the remaining heads of passing, the marks obtained by him in the Physical Education Test shall be added to maximum up to four heads of passing in which he has failed as the case may be. A student getting the benefit of Physical Education marks should not be given advantage of any other Ordinance. The Physical Education Marks shall not be considered for the award of Class and for deciding merit.</li> <li>2. If as a result of addition of Physical Education marks a student does not pass the examination the marks obtained by him in Physical Education shall not be considered.</li> <li>3. The marks of Physical Education obtained by the unsuccessful students at the B. Sc. Part-I semester Examination shall be carried forward for their subsequent attempt/s.</li> <li>4. The marks obtained in Physical Education shall not be considered for earning exemption in a subject of head of passing, but the marks will be carried forward for availing the benefit at the subsequent attempts.</li> <li>5. The marks secured by the students under the Physical Education scheme shall be added to the total of his marks in the Examination irrespective of the fact of his passing or failure in the examination. The Physical Education marks shall be shown as “Total +P. E. Marks”.</li> <li>6. The Physical Education Test shall be conducted in the Second Semester.</li> </ol>
<b>CBCS R. B. Sc. 3</b>	<p><b>(A) Structure of Programme :</b> Following shall be the Structure and course list</p> <p><b>(i) Structure - I for B. Sc. Part – I</b></p>

(ii) Structure - II for B. Sc. Part – II

(iii) Structure - III for B. Sc. Part – III

**(B) List of courses**

(i) for B. Sc. Part – I

(ii) for B. Sc. Part – II

(iii) for B. Sc. Part – III

**(C) List of IDS courses:**

Sr. No.	IDS	Compulsory	Optional
1.	Bio-Chemistry	Chemistry	Botany / Zoology
2.	Geo-Chemistry	Geology	Chemistry
3.	Astro-Physics	Physics	Mathematics
4.	Fisheries	Zoology	Botany/Chemistry
5.	Plant Protection	Botany	Chemistry/ Zoology
6.	Pollution	Chemistry	Botany/Zoology/ Physics

**(D) Non-Credit courses:**

**(a) Compulsory Civic Courses (CCC)**

For Sem I and Sem V there shall be Compulsory Civic Courses under **self study mode** which are as follows:

**Sem I: CCC – I : Democracy, Elections and Good Governance**

**Sem V: CCC – II : Constitution of India and Local Self Government**

**(b) Skill Development Courses (SDC)**

For Sem II and Sem VI there shall be Compulsory Skill Development Courses under **self study mode** which are as follows:

**Sem II: SDC – I : Any one from following (i) to (v) (Non-Credit)**

i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing

**Sem VI: SDC – II: Any one from following (vi) to (x) (Non-Credit)**

	<p>vi) Interview &amp; Personal Presentation Skill, vii) Entrepreneurship Development Skill, viii) Travel &amp; Tourism, ix) E-Banking &amp; Financial Services, x) RTI &amp; Human Right Education (HRE), IPR &amp; Patents</p> <ul style="list-style-type: none"> <li>• <i>These courses are of Self Study mode. The study material of all above courses will be made available on University website.</i></li> <li>• <i>The Examination of each of the course will be of 50 marks having 25 MCQ questions. Minimum 20 marks (40%) out of 50 are required for passing.</i></li> <li>• <i>The duration of examination shall be 60 minutes.</i></li> <li>• <i>The examination shall be conducted at the college level.</i></li> <li>• <i>The list of all candidates along with marks is to be submitted to the University.</i></li> <li>• <i>The degree will be awarded only after successful completion of these courses.</i></li> <li>• <i>The performance of students regarding Non-Credit courses (CCC &amp; SDC) shall be separately mentioned in Result-sheet as Pass or fail.</i></li> </ul>
<p><b>CBCS R. B. Sc. 4</b></p>	<p>The detailed syllabi for the various courses under CBCS pattern shall be subject to such revision, modification etc. as may be made by the Academic Council from time to time on the recommendation of the Boards of Studies in different subjects and shall be available on University website. The text-books and reference books for the various subjects shall be those as prescribed by the Academic Council from time to time on the recommendations of the respective Boards of Studies.</p>
<p><b>CBCS R. B. Sc. 5</b></p>	<p><b>(A)</b></p> <p>i. The result of the B. Sc. Part-I examination shall be declared publicly in three categories viz. i) Pass-candidates who have passed the Part-I examination and (ii) Fail-Candidates who have failed in one or more heads of passing. (iii) Fail-ATKT – Who have Failed in maximum four heads of passing, such candidates are allowed to proceed for B. Sc. Part II.</p> <p>ii. The result of the B. Sc. Part-II examination shall be declared publicly in three categories viz. i) Pass-candidates who have passed the Part-II examination and (ii) Fail-Candidates who have failed in one or more heads of passing. (iii) Fail-ATKT – Who have Failed in maximum four heads of passing, such candidates are allowed to proceed for B. Sc. Part III.</p>

	<p>iii. The result of B. Sc. Part III shall be declared publicly in two categories viz.</p> <p>(i) Pass-Candidates who have passed in all heads of passing of the Examination and (ii) Fail-Candidates who have failed in one or more heads of passing (iii) The result of the Candidate at B. Sc. Part –III shall be declared pass only when candidate clears the Part – I &amp; II Examinations satisfactorily.</p> <p>No class shall be awarded at B. Sc. Part-I &amp; II Examination and no passing certificate shall be issued to the candidates for these examinations.</p> <p><b>(B)</b> The Results of the Examination will be declared on the basis of marks obtained, Grade points obtained, Credit points, Status, Percentage of marks, Result, SGPA &amp; CGPA with numerical grade point and letter grade. The list of Courses, course code, Paper number of programme, numerical grade &amp; letter grade table and calculation of SGPA and CGPA table shall be mentioned on the backside of mark-sheet.</p>
<b>CBCS R. B. Sc. 6</b>	The fees for the admission to the B. Sc. Part-I, B. Sc. Part-II & Part-III Semester Examinations shall be as prescribed by University Circular from time to time.
<b>CBCS R. B. Sc. 7</b>	The Principal of the college may permit a student to change his optional subject/ subjects in the first term only before submission of dully filled University Examination form.
<b>CBCS R. B. Sc. 8</b>	The Principal of the college has to certify the attendance and the examination form of the candidates as per the Ordinance O. 31 and O. 37. A candidate has to submit examination form as per the schedule and dates prescribed by the University for every examination to the University along with the prescribed fee through the Principal of the college.
<b>CBCS R. B. Sc. 9</b>	A candidate who has already passed in a principal course (subject) and wants to improve the performance in theory only, shall be allowed to appear again in that head in <b>immediate subsequent semester</b> after cancellation of earlier performance. This provision is made only for B. Sc. Part III (Sem V & VI) in the same course (subject) before taking concerned degree.
<b>CBCS R. B. Sc. 10</b>	<b>a)</b> A candidate, who has already qualified the B. Sc. Degree examination with a specific subject of this University and desires to seek B. Sc. Degree in another subject, shall be permitted to do so. Such candidate may appear again at B. Sc. Part – III (Sem V & VI) Examination on the submission of a new application for fresh admission and on payment of required fees. Such a candidate need not appear for compulsory course (English).

	<p><b>b)</b> A candidate seeking degree in a specific course (subject) not offered at B. Sc. Part II &amp; III, but offered only at B. Sc. Part I, needs to reappear for B. Sc. Part II (Sem III &amp; IV) &amp; Part III (V &amp; VI), including both theory and practical.</p> <p>Such a candidate passing the examination shall not be eligible for class or additional degree. He shall be granted a certificate of having passed the additional subject.</p> <p><b>c)</b> The Candidate who has already taken degree in any of the optional courses and if a candidate wants to change the principal courses, candidate can appear for new course as principle course (Subjects), from amongst the optional subjects of B. Sc. Part II, candidate can complete his new course, however the candidate will not be offered new degree in the principle subject, the degree will be offered if candidate surrenders his first degree.</p> <p><b>d)</b> The above candidates, described in clause (c &amp; d), shall get new degree, provided they surrender first degree. <i>This rule shall be applicable retrospectively.</i></p> <p><b>e)</b> The Candidate who has already taken degree in any of the optional courses shall not be eligible for a second degree and a class, a prize, scholarship, medal or any other award even though candidate completes the degree in other remaining courses. The candidate will get all these benefits if candidate surrenders his first degree.</p>
<b>CBCS R. B. Sc. 11</b>	A candidate, who has duly qualified for appearing at B. Sc. Part III examination and has not taken the examination, will be permitted to offer any of his optional subjects at B. Sc. Part II, as his principal subject at B. Sc. Part III. However, the candidate has to complete two terms successfully in the newly selected course (subject).
<b>CBCS R. B. Sc. 12</b>	A candidate who has satisfactorily kept first term of B. Sc. Part-I in Shivaji University or any other Universities recognized by UGC and following CBCS pattern shall be allowed to join for the Second Term of the B. Sc. Part-I in Shivaji University.
<b>CBCS R. B. Sc. 13</b>	A candidate satisfactorily completing B. Sc. Part I (Sem I & II) from other UGC recognised Universities, following CBCS pattern and seeking admission for B. Sc. Part II of Shivaji University shall be admitted in affiliated colleges and Credits shall be transferred.
<b>CBCS R. B. Sc. 14</b>	<p>A candidate from other Universities recognized by UGC can take admission to the same course (Subject) in any subsequent semester in the framework of Rules and Regulations of this University.</p> <p>Such candidate who has obtained the concession of A. T. K. T. at any of the</p>

	<p>examinations of the other Universities recognized by UGC and desires to migrate to this University to proceed for further studies will have to clear the failed subjects from the parent University. In the case of such candidates the parent University should issue the Migration Certificate.</p>
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**CBCS R. B. Sc. 3: (A) (i) Structure of B. Sc. Programme Sem I & II**  
**Structure – I**

SEMESTER – I (Duration – 6 Months)														
Sr. No.	Course (Subject) Title	TEACHING SCHEME						EXAMINATION SCHEME						
		THEORY			PRACTICAL			THEORY				PRACTICAL		
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Hours	Max	Total Marks	Min	Hours	Max	Min
1	DSC-A	2	5	4	2	4	3.2	2	50	100	35	<b>PRACTICAL EXAMINATION IS ANNUAL</b>		
2	DSC-A	2						2	50					
3	DSC-A	2	5	4	2	4	3.2	2	50	100	35			
4	DSC-A	2						2	50					
5	DSC-A	2	5	4	2	4	3.2	2	50	100	35			
6	DSC-A	2						2	50					
7	DSC-A	2	5	4	2	4	3.2	2	50	100	35			
8	DSC-A	2						2	50					
9	AECC-A	2	4	3.2	-----	-----	-----	2	50	50	18			
Total		18	24	19.2	8	16	12.8	-	450					
SEMESTER – II (Duration – 6 Months)														
1	DSC-B	2	5	4	2	4	3.2	2	50	100	35	<b>As per BOS Guide-lines</b>	50	18
2	DSC-B	2						2	50					
3	DSC-B	2	5	4	2	4	3.2	2	50	100	35			
4	DSC-B	2						2	50					
5	DSC-B	2	5	4	2	4	3.2	2	50	100	35			
6	DSC-B	2						2	50					
7	DSC-B	2	5	4	2	4	3.2	2	50	100	35			
8	DSC-B	2						2	50					
9	AECC-B	2	4	3.2	-----	-----	-----	2	50	50	18			
Total		18	24	19.2	8	16	12.8	-	450			200		
<b>Grand Total</b>		<b>36</b>	<b>48</b>	<b>38.4</b>	<b>16</b>	<b>32</b>	<b>25.6</b>		<b>900</b>					
• Student contact hours per week : 32 Hours (Min.)						• Total Marks for B.Sc.-I (Including English) : <b>1100</b>								
• Theory and Practical Lectures : 48 Minutes Each						• Total Credits for B.Sc.-I (Semester I & II) : <b>52</b>								
• <b>DSC</b> – Discipline Specific Core course : Select any 4 subject pairs from A1 to A38 and B1 to B38.														
• <b>AECC</b> – Ability Enhancement Compulsory Course (1A & 1B)- English														
• Practical Examination will be conducted annually for 50 Marks per course (subject).														
• <i>Except English, combined passing for two theory papers of 50 marks each. i.e. Min. 35 marks required for passing out of 100.</i>														
• <i>There shall be separate passing for theory and practical courses.</i>														
<b>(A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC)</b>														
<b>For Sem I: CCC – I : Democracy, Elections and Good Governance</b>														
<b>(B) Non-Credit Self Study Course : Skill Development Courses (SDC)</b>														
<b>For Sem II: SDC – I : Any one from following (i) to (v)</b>														
i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing														



## ii) Structure of B. Sc. Programme Sem III & IV

### Structure - II

SEMESTER – III (Duration – 6 Months)																				
Sr. No.	Course (Subject) Title	TEACHING SCHEME						EXAMINATION SCHEME												
		THEORY			PRACTICAL			THEORY				PRACTICAL								
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Hours	Max	Total Marks	Min	Hours	Max	Min						
1	DSC-C	2	3	2.4	4	6.4	8	2	50	100	35	<b>PRACTICAL EXAMINATION IS ANNUAL</b>								
2	DSC-C	2	3	2.4				2	50											
3	DSC-C	2	3	2.4				4	6.4	8	2				50	100	35			
4	DSC-C	2	3	2.4							2				50					
5	DSC-C	2	3	2.4				4	6.4	8	2				50	100	35			
6	DSC-C	2	3	2.4							2				50					
7	AECC-C	4	4	3.2				---	---	---					---	---				
	<b>TOTAL</b>	<b>16</b>	<b>22</b>	<b>17.6</b>	<b>12</b>	<b>19.2</b>	<b>24</b>			<b>300</b>	<b>---</b>									
SEMESTER – IV (Duration – 6 Months)																				
1	DSC-D	2	3	2.4	4	6.4	8	2	50	100	35				<b>As per BOS Guide-lines</b>	100	35			
2	DSC-D	2	3	2.4				2	50											
3	DSC-D	2	3	2.4				4	6.4	8	2							50	100	35
4	DSC-D	2	3	2.4							2							50		
5	DSC-D	2	3	2.4				4	6.4	8	2							50	100	35
6	DSC-D	2	3	2.4							2	50								
7	AECC- C AECC- D	---	---	---				---	---	---	3	70 30	100	25 10	---	---	---			
	<b>TOTAL</b>	<b>12</b>	<b>18</b>	<b>14.4</b>	<b>12</b>	<b>19.2</b>	<b>24</b>			<b>400</b>	<b>---</b>									
		<b>28</b>	<b>40</b>	<b>32</b>	<b>24</b>	<b>38.4</b>	<b>48</b>			<b>700</b>	<b>--</b>	<b>---</b>	<b>300</b>							
<ul style="list-style-type: none"> <li>Student contact hours per week : 32 Hours (Min.)</li> </ul>						<ul style="list-style-type: none"> <li>Total Marks for B.Sc.-II (Including EVS) : <b>1000</b></li> </ul>														
<ul style="list-style-type: none"> <li>Theory and Practical Lectures : 48 Minutes Each</li> </ul>						<ul style="list-style-type: none"> <li>Total Credits for B.Sc.-II (Semester III &amp; IV) : <b>52</b></li> </ul>														
<ul style="list-style-type: none"> <li><b>DSC</b> : - Discipline Specific Core Course : Select any 3 subject pairs, relevant to those opted as B. Sc. I, from DSC C1 to DSC C38 and/or DSC IC39 to DSC IC50 and DSC D1 to DSC D38 and/or DSC ID39 to DSC ID50.</li> </ul>																				
<ul style="list-style-type: none"> <li><b>AECC</b>- Ability Enhancement Compulsory Course (1C) : Environmental Studies: EVS ( Theory – 70 &amp; Project – 30 Marks)</li> </ul>																				
<ul style="list-style-type: none"> <li>Practical Examination will be conducted annually for 100 Marks per course (subject).</li> </ul>																				
<ul style="list-style-type: none"> <li><i>Except Environmental Studies, combined passing for two theory papers of 50 marks each. i.e. Min. 35 marks required for passing out of 100.</i></li> </ul>																				
<ul style="list-style-type: none"> <li><i>There shall be separate passing for theory and practical courses also for Environmental Studies.</i></li> </ul>																				

## ii) Structure of B. Sc. Programme Sem V & VI

### Structure - III

SEMESTER – V (Duration – 6 Months)														
Sr. No.	Subject Title	TEACHING SCHEME						EXAMINATION SCHEME						
		THEORY			PRACTICAL			THEORY				PRACTICAL		
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Hours	Theory	Internal	Min Marks	Hours	Max Marks	Min Marks
1	DSE-E	2	3	2.4	8	20	16	2	40	10	14+4=18	PRACTICAL EXAMINATION IS ANNUAL		
2	DSE-E	2	3	2.4				2	40	10	14+4=18			
3	DSE-E	2	3	2.4				2	40	10	14+4=18			
4	DSE-E	2	3	2.4				2	40	10	14+4=18			
5	AECC-E	2	4	3.2				---	---	---	2			
<b>TOTAL</b>		<b>10</b>	<b>16</b>	<b>12.8</b>	<b>8</b>	<b>20</b>	<b>16</b>		<b>200</b>	<b>50</b>	<b>---</b>			
SEMESTER – VI (Duration – 6 Months)														
1	DSE-F	2	3	2.4	8	20	16	2	40	10	14+4=18	As per BOS Guidelines	200	70
2	DSE-F	2	3	2.4				2	40	10	14+4=18			
3	DSE-F	2	3	2.4				2	40	10	14+4=18			
4	DSE-F	2	3	2.4				2	40	10	14+4=18			
5	AECC-F	2	4	3.2				---	---	---	2	40	10	14+4=18
<b>TOTAL</b>		<b>10</b>	<b>16</b>	<b>12.8</b>	<b>8</b>	<b>20</b>	<b>16</b>		<b>200</b>	<b>50</b>	<b>---</b>			
<b>GRAND TOTAL</b>		<b>20</b>	<b>32</b>	<b>25.6</b>	<b>16</b>	<b>40</b>	<b>32</b>		<b>400</b>	<b>100</b>	<b>--</b>	<b>---</b>	<b>200</b>	
<ul style="list-style-type: none"> <li>• Student contact hours per week : 32 Hours (Min)</li> <li>• Theory and Practical Lectures : 48 Min. Each</li> <li>• <b>DSE- Discipline Specific Elective.</b> A candidate shall select one course (subject) from the three Courses (Subjects) selected at B.Sc. – II. Select any 4 pairs of papers from DSE- E1 to DSE - E84 for Sem – V and DSE - F1 to DSE - F84 for Sem - VI</li> <li>• <b>AECC-</b> Ability Enhancement Compulsory Course (E &amp; F) : English</li> <li>• Practical Examination will be conducted annually for 200 Marks.</li> <li>• <b>There shall be separate passing for theory, internal and practical.</b></li> </ul>														
<p><b>(A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC)</b>  <b>For Sem V: CCC – II :</b> Constitution of India and Local Self Government</p>														
<p><b>(B) Non-Credit Self Study Course : Skill Development Courses (SDC)</b>  <b>For Sem VI: SDC – II:</b> Any one from following (vi) to (x)  vi) Interview &amp; Personal Presentation Skill, vii) Entrepreneurship Development Skill, viii) Travel &amp; Tourism, ix) E-Banking &amp; Financial Services, x) RTI &amp; Human Right Education (HRE), IPR &amp; Patents</p>														

**CBCS R.B. Sc. 3: (B) List of courses:**

i) B. Sc. Part 1 (Sem I &amp; II),

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 1: Sem I DSC – 1A to 38 A</b>			
<b>DSC A1</b>	Physics I	<b>DSC A21</b>	Geology I
<b>DSC A2</b>	Physics II	<b>DSC A22</b>	Geology II
<b>DSC A3</b>	Chemistry I	<b>DSC A23</b>	Seed Technology I
<b>DSC A4</b>	Chemistry II	<b>DSC A24</b>	Seed Technology II
<b>DSC A5</b>	Mathematics I	<b>DSC A25</b>	Microbiology I
<b>DSC A6</b>	Mathematics II	<b>DSC A26</b>	Microbiology II
<b>DSC A7</b>	Statistics I	<b>DSC A27</b>	Industrial Microbiology I
<b>DSC A8</b>	Statistics II	<b>DSC A28</b>	Industrial Microbiology II
<b>DSC A9</b>	Electronics I	<b>DSC A29</b>	Biochemistry I
<b>DSC A10</b>	Electronics II	<b>DSC A30</b>	Biochemistry II
<b>DSC A11</b>	Computer Science I	<b>DSC A31</b>	Psychology I
<b>DSC A12</b>	Computer Science II	<b>DSC A32</b>	Psychology II
<b>DSC A13</b>	Botany I	<b>DSC A33</b>	Food Science & Quality control I
<b>DSC A14</b>	Botany II	<b>DSC A34</b>	Food Science & Quality control II
<b>DSC A15</b>	Zoology I	<b>DSC A35</b>	Astrophysics I
<b>DSC A16</b>	Zoology II	<b>DSC A36</b>	Astrophysics II
<b>DSC A17</b>	Biotechnology (Opt) I	<b>DSC A37</b>	Nanotechnology (opt) I
<b>DSC A18</b>	Biotechnology (Opt) II	<b>DSC A38</b>	Nanotechnology (opt) II
<b>DSC A19</b>	Geography I		
<b>DSC A20</b>	Geography II	<b>AECC – A</b>	English – I

DSC: Discipline Specific Core Course

AECC – Ability Enhancement Compulsory Course

## Sem II : DSC – 1B to 38B

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 1: Sem II DSC – 1B to 38B</b>			
<b>DSC B1</b>	Physics III	<b>DSC B21</b>	Geology III
<b>DSC B2</b>	Physics IV	<b>DSC B22</b>	Geology IV
<b>DSC B3</b>	Chemistry III	<b>DSC B23</b>	Seed Technology III
<b>DSC B4</b>	Chemistry IV	<b>DSC B24</b>	Seed Technology IV
<b>DSC B5</b>	Mathematics III	<b>DSC B25</b>	Microbiology III
<b>DSC B6</b>	Mathematics IV	<b>DSC B26</b>	Microbiology IV
<b>DSC B7</b>	Statistics III	<b>DSC B27</b>	Industrial Microbiology III
<b>DSC B8</b>	Statistics IV	<b>DSC B28</b>	Industrial Microbiology IV
<b>DSC B9</b>	Electronics III	<b>DSC B29</b>	Biochemistry III
<b>DSC B10</b>	Electronics IV	<b>DSC B30</b>	Biochemistry IV
<b>DSC B11</b>	Computer Science III	<b>DSC B31</b>	Psychology III
<b>DSC B12</b>	Computer Science IV	<b>DSC B32</b>	Psychology IV
<b>DSC B13</b>	Botany III	<b>DSC B33</b>	Food Science & Quality control III
<b>DSC B14</b>	Botany IV	<b>DSC B34</b>	Food Science & Quality control IV
<b>DSC B15</b>	Zoology III	<b>DSC B35</b>	Astrophysics III
<b>DSC B16</b>	Zoology IV	<b>DSC B36</b>	Astrophysics IV
<b>DSC B17</b>	Biotechnology (Opt) III	<b>DSC B37</b>	Nanotechnology (opt) III
<b>DSC B18</b>	Biotechnology (Opt) IV	<b>DSC B38</b>	Nanotechnology (opt) IV
<b>DSC B19</b>	Geography III		
<b>DSC B20</b>	Geography IV	<b>AECC – B</b>	English – II

**ii) B.Sc. Part 2 (Sem III & IV)**

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 2: Sem III DSC – 1C to 38C</b>			
<b>DSC C1</b>	Physics V	<b>DSC C21</b>	Geology V
<b>DSC C2</b>	Physics VI	<b>DSC C22</b>	Geology VI
<b>DSC C3</b>	Chemistry V	<b>DSC C23</b>	Seed Technology V
<b>DSC C4</b>	Chemistry VI	<b>DSC C24</b>	Seed Technology VI
<b>DSC C5</b>	Mathematics V	<b>DSC C25</b>	Microbiology V
<b>DSC C6</b>	Mathematics VI	<b>DSC C26</b>	Microbiology VI
<b>DSC C7</b>	Statistics V	<b>DSC C27</b>	Industrial Microbiology V
<b>DSC C8</b>	Statistics VI	<b>DSC C28</b>	Industrial Microbiology VI
<b>DSC C9</b>	Electronics V	<b>DSC C29</b>	Biochemistry V
<b>DSC C10</b>	Electronics VI	<b>DSC C30</b>	Biochemistry VI
<b>DSC C11</b>	Computer Science V	<b>DSC C31</b>	Psychology V
<b>DSC C12</b>	Computer Science VI	<b>DSC C32</b>	Psychology VI
<b>DSC C13</b>	Botany V	<b>DSC C33</b>	Food Science & Quality control V
<b>DSC C14</b>	Botany VI	<b>DSC C34</b>	Food Science & Quality control VI
<b>DSC C15</b>	Zoology V	<b>DSC C35</b>	Astrophysics V
<b>DSC C16</b>	Zoology VI	<b>DSC C36</b>	Astrophysics VI
<b>DSC C17</b>	Biotechnology (Opt) V	<b>DSC C37</b>	Nanotechnology (opt) V
<b>DSC C18</b>	Biotechnology (Opt) VI	<b>DSC C38</b>	Nanotechnology (opt) VI
<b>DSC C19</b>	Geography V	*	
<b>DSC C20</b>	Geography VI		

**\*Interdisciplinary Courses (IDS) (DSC - IC)**

<b>DSC IC39</b>	Astrophysics I	<b>DSC IC45</b>	Plant Protection I
<b>DSC IC40</b>	Astrophysics II	<b>DSC IC46</b>	Plant Protection II
<b>DSC IC41</b>	Geochemistry I	<b>DSC IC47</b>	Pollution I
<b>DSC IC42</b>	Geochemistry II	<b>DSC IC48</b>	Pollution II
<b>DSC IC43</b>	Biochemistry I	<b>DSC IC49</b>	Fisheries I
<b>DSC IC44</b>	Biochemistry II	<b>DSC IC50</b>	Fisheries II

## Sem – IV

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 2: Sem IV DSC – 1D to 38D</b>			
<b>DSC D1</b>	Physics VII	<b>DSC D20</b>	Geography VIII
<b>DSC D2</b>	Physics VIII	<b>DSC D21</b>	Geology VII
<b>DSC D3</b>	Chemistry VII	<b>DSC D22</b>	Geology VIII
<b>DSC D4</b>	Chemistry VIII	<b>DSC D23</b>	Seed Technology VII
<b>DSC D5</b>	Mathematics VII	<b>DSC D24</b>	Seed Technology VIII
<b>DSC D6</b>	Mathematics VIII	<b>DSC D25</b>	Microbiology VII
<b>DSC D7</b>	Statistics VII	<b>DSC D26</b>	Microbiology VIII
<b>DSC D8</b>	Statistics VIII	<b>DSC D27</b>	Industrial Microbiology VII
<b>DSC D9</b>	Electronics VII	<b>DSC D28</b>	Industrial Microbiology VIII
<b>DSC D10</b>	Electronics VIII	<b>DSC D29</b>	Biochemistry VII
<b>DSC D11</b>	Computer Science VII	<b>DSC D30</b>	Biochemistry VIII
<b>DSC D12</b>	Computer Science VIII	<b>DSC D31</b>	Psychology VII
<b>DSC D13</b>	Botany VII	<b>DSC D32</b>	Psychology VIII
<b>DSC D14</b>	Botany VIII	<b>DSC D33</b>	Food Science & Quality control VII
<b>DSC D15</b>	Zoology VII	<b>DSC D34</b>	Food Science & Quality control VIII
<b>DSC D16</b>	Zoology VIII	<b>DSC D35</b>	Astrophysics VII
<b>DSC D17</b>	Biotechnology (Opt) VII	<b>DSC D36</b>	Astrophysics VIII
<b>DSC D18</b>	Biotechnology (Opt) VIII	<b>DSC D37</b>	Nanotechnology (opt) VII
<b>DSC D19</b>	Geography VII	<b>DSC D38</b>	Nanotechnology (opt) VIII
		*	
<b>AECC C</b> Environmental Studies (Theory Paper)			
<b>AECC D</b> Environmental Studies (Project)			

### \*Interdisciplinary Courses (IDS) (DSC – ID)

<b>DSC ID39</b>	Astrophysics III	<b>DSC ID45</b>	Plant Protection III
<b>DSC ID40</b>	Astrophysics IV	<b>DSC ID46</b>	Plant Protection IV
<b>DSC ID41</b>	Geochemistry III	<b>DSC ID47</b>	Pollution III
<b>DSC ID42</b>	Geochemistry IV	<b>DSC ID48</b>	Pollution IV
<b>DSC ID43</b>	Biochemistry III	<b>DSC ID49</b>	Fisheries III
<b>DSC ID44</b>	Biochemistry IV	<b>DSC ID50</b>	Fisheries IV

### iii) B. Sc. Part 3 (Sem V & VI)

#### Discipline Specific Elective (DSE)

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 3: Sem V DSE – 1E to 84E</b>			
<b>DSE E1</b>	Physics IX	<b>DSE E45</b>	Seed Technology IX
<b>DSE E2</b>	Physics X	<b>DSE E46</b>	Seed Technology X
<b>DSE E3</b>	Physics XI	<b>DSE E47</b>	Seed Technology XI
<b>DSE E4</b>	Physics XII	<b>DSE E48</b>	Seed Technology XII
<b>DSE E5</b>	Chemistry IX	<b>DSE E49</b>	Microbiology IX
<b>DSE E6</b>	Chemistry X	<b>DSE E50</b>	Microbiology X
<b>DSE E7</b>	Chemistry XI	<b>DSE E51</b>	Microbiology XI
<b>DSE E8</b>	Chemistry XII	<b>DSE E52</b>	Microbiology XII
<b>DSE E9</b>	Mathematics IX	<b>DSE E53</b>	Industrial Microbiology IX
<b>DSE E10</b>	Mathematics X	<b>DSE E54</b>	Industrial Microbiology X
<b>DSE E11</b>	Mathematics XI	<b>DSE E55</b>	Industrial Microbiology XI
<b>DSE E12</b>	Mathematics XII	<b>DSE E56</b>	Industrial Microbiology XII
<b>DSE E13</b>	Statistics IX	<b>DSE E57</b>	Biochemistry IX
<b>DSE E14</b>	Statistics X	<b>DSE E58</b>	Biochemistry X
<b>DSE E15</b>	Statistics XI	<b>DSE E59</b>	Biochemistry XI
<b>DSE E16</b>	Statistics XII	<b>DSE E60</b>	Biochemistry XII
<b>DSE E17</b>	Electronics IX	<b>DSE E61</b>	Psychology IX
<b>DSE E18</b>	Electronics X	<b>DSE E62</b>	Psychology X
<b>DSE E19</b>	Electronics XI	<b>DSE E63</b>	Psychology XI
<b>DSE E20</b>	Electronics XII	<b>DSE E64</b>	Psychology XII
<b>DSE E21</b>	Computer Science IX	<b>DSE E65</b>	Food Science & Quality control IX
<b>DSE E22</b>	Computer Science X	<b>DSE E66</b>	Food Science & Quality control X
<b>DSE E23</b>	Computer Science XI	<b>DSE E67</b>	Food Science & Quality control XI
<b>DSE E24</b>	Computer Science XII	<b>DSE E68</b>	Food Science & Quality control XII
<b>DSE E25</b>	Botany IX	<b>DSE E69</b>	Plant Protection V
<b>DSE E26</b>	Botany X	<b>DSE E70</b>	Plant Protection VI
<b>DSE E27</b>	Botany XI	<b>DSE E71</b>	Plant Protection VII
<b>DSE E28</b>	Botany XII	<b>DSE E72</b>	Plant Protection VIII
<b>DSE E29</b>	Zoology IX	<b>DSE E73</b>	Fisheries V
<b>DSE E30</b>	Zoology X	<b>DSE E74</b>	Fisheries VI

<b>DSE E31</b>	Zoology XI	<b>DSE E75</b>	Fisheries VII
<b>DSE E32</b>	Zoology XII	<b>DSE E76</b>	Fisheries VIII
<b>DSE E33</b>	Biotechnology (Opt) IX	<b>DSE E77</b>	Astrophysics IX
<b>DSE E34</b>	Biotechnology (Opt) X	<b>DSE E78</b>	Astrophysics X
<b>DSE E35</b>	Biotechnology (Opt) XI	<b>DSE E79</b>	Astrophysics XI
<b>DSE E36</b>	Biotechnology (Opt) XII	<b>DSE E80</b>	Astrophysics XII
<b>DSE E37</b>	Geography IX	<b>DSE E81</b>	Nanotechnology (Opt)IX
<b>DSE E38</b>	Geography X	<b>DSE E82</b>	Nanotechnology (Opt)X
<b>DSE E39</b>	Geography XI	<b>DSE E83</b>	Nanotechnology (Opt)XI
<b>DSE E40</b>	Geography XII	<b>DSE E84</b>	Nanotechnology (Opt)XII
<b>DSE E41</b>	Geology IX		
<b>DSE E42</b>	Geology X		
<b>DSE E43</b>	Geology XI		
<b>DSE E44</b>	Geology XII	<b>AECC E</b>	English III



## Sem – VI

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 3: Sem VI DSE – 1F to 84F</b>			
<b>DSE F1</b>	Physics XIII	<b>DSE F45</b>	Seed Technology XIII
<b>DSE F2</b>	Physics XIV	<b>DSE F46</b>	Seed Technology XIV
<b>DSE F3</b>	Physics XV	<b>DSE F47</b>	Seed Technology XV
<b>DSE F4</b>	Physics XVI	<b>DSE F48</b>	Seed Technology XVI
<b>DSE F5</b>	Chemistry XIII	<b>DSE F49</b>	Microbiology XIII
<b>DSE F6</b>	Chemistry XIV	<b>DSE F50</b>	Microbiology XIV
<b>DSE F7</b>	Chemistry XV	<b>DSE F51</b>	Microbiology XV
<b>DSE F8</b>	Chemistry XVI	<b>DSE F52</b>	Microbiology XVI
<b>DSE F9</b>	Mathematics XIII	<b>DSE F53</b>	Industrial Microbiology XIII
<b>DSE F10</b>	Mathematics XIV	<b>DSE F54</b>	Industrial Microbiology XIV
<b>DSE F11</b>	Mathematics XV	<b>DSE F55</b>	Industrial Microbiology XV
<b>DSE F12</b>	Mathematics XVI	<b>DSE F56</b>	Industrial Microbiology XVI
<b>DSE F13</b>	Statistics XIII	<b>DSE F57</b>	Biochemistry XIII
<b>DSE F14</b>	Statistics XIV	<b>DSE F58</b>	Biochemistry XIV
<b>DSE F15</b>	Statistics XV	<b>DSE F59</b>	Biochemistry XV
<b>DSE F16</b>	Statistics XVI	<b>DSE F60</b>	Biochemistry XVI
<b>DSE F17</b>	Electronics XIII	<b>DSE F61</b>	Psychology XIII
<b>DSE F18</b>	Electronics XIV	<b>DSE F62</b>	Psychology XIV
<b>DSE F19</b>	Electronics XV	<b>DSE F63</b>	Psychology XV
<b>DSE F20</b>	Electronics XVI	<b>DSE F64</b>	Psychology XVI
<b>DSE F21</b>	Computer Science XIII	<b>DSE F65</b>	Food Science & Quality control XIII
<b>DSE F22</b>	Computer Science XIV	<b>DSE F66</b>	Food Science & Quality control XIV
<b>DSE F23</b>	Computer Science XV	<b>DSE F67</b>	Food Science & Quality control XV
<b>DSE F24</b>	Computer Science XVI	<b>DSE F68</b>	Food Science & Quality control XVI
<b>DSE F25</b>	Botany XIII	<b>DSE F69</b>	Plant Protection IX
<b>DSE F26</b>	Botany XIV	<b>DSE F70</b>	Plant Protection X
<b>DSE F27</b>	Botany XV	<b>DSE F71</b>	Plant Protection XI
<b>DSE F28</b>	Botany XVI	<b>DSE F72</b>	Plant Protection XII
<b>DSE F29</b>	Zoology XIII	<b>DSE F73</b>	Fisheries IX
<b>DSE F30</b>	Zoology XIV	<b>DSE F74</b>	Fisheries X
<b>DSE F31</b>	Zoology XV	<b>DSE F75</b>	Fisheries XI

<b>DSE F32</b>	Zoology XVI	<b>DSE F76</b>	Fisheries XII
<b>DSE F33</b>	Biotechnology (Opt) XIII	<b>DSE F77</b>	Astrophysics XIII
<b>DSE F34</b>	Biotechnology (Opt) XIV	<b>DSE F78</b>	Astrophysics XIV
<b>DSE F35</b>	Biotechnology (Opt) XV	<b>DSE F79</b>	Astrophysics XV
<b>DSE F36</b>	Biotechnology (Opt) XVI	<b>DSE F80</b>	Astrophysics XVI
<b>DSE F37</b>	Geography XIII	<b>DSE F81</b>	Nanotechnology (Opt) XIII
<b>DSE F38</b>	Geography XIV	<b>DSE F82</b>	Nanotechnology (Opt) XIV
<b>DSE F39</b>	Geography XV	<b>DSE F83</b>	Nanotechnology (Opt) XV
<b>DSE F40</b>	Geography XVI	<b>DSE F84</b>	Nanotechnology (Opt) XVI
<b>DSE F41</b>	Geology XIII		
<b>DSE F42</b>	Geology XIV		
<b>DSE F43</b>	Geology XV		
<b>DSE F44</b>	Geology XVI	<b>AECC F</b>	English IV

**Ordinance:**

O. B. Sc. 1	<p>A) i) The students passing the Higher Secondary Examination conducted by the Maharashtra State Board of Higher Secondary Education, Pune with science stream shall be allowed to enter upon the B. Sc. Part-I Course.</p> <p style="text-align: center;">OR</p> <p>ii) The Pre-Degree Science Examination of this University.</p> <p style="text-align: center;">OR</p> <p>iii) An examination of any other statutory University or an examining Body recognised as equivalent thereto.</p> <p>B) No candidate shall be admitted to the B. Sc. Part-I Examination unless he has satisfactorily kept two terms for the course at a College affiliated to this University.</p>
O. B. Sc. 2	<p>A) No candidates shall be allowed to enter the course for the B. Sc. Part-II examination unless he has passed the B. Sc. Part-I examination or an examination of any other statutory University recognised as equivalent thereto.</p> <p>A candidate will be admitted to B.Sc. Part – II examination of this university, if he/she passes in all heads passing of university examination of B.Sc. Part – I (Sem. I &amp; II taken together) or he will be allowed to keep term for B.Sc. Part – II if he/she is fail in not more than four heads of university examination i.e. Theory or Practical of B.Sc. Part – I (Sem. I &amp; II taken together).</p> <p>(Note : Theory and Practical are separate heads of passing. A candidate may fail in not more than four heads of Theory or Practical examination</p> <p>Internal Examination will be compulsory for all students. If the student is absent/fail in internal examination then he/she will have to clear the internal examination in subsequent attempt in following semester.</p> <p>There will be a separate head of passing in Theory, Internal and Practical. However, ATKT rules will be followed in respect of Theory or Practical heads of passing only .</p> <p>B) No candidate shall be admitted to the B. Sc. Part-II examination unless he has satisfactorily kept two terms for the same at a College affiliated to this University.</p>
O. B. Sc.3	<p><b>A) No candidate shall be allowed to enter upon the course for the B. Sc. Part-III examination unless he has passed the B. Sc. Part-II examination of this University or an examination of any other Statutory University, recognised as equivalent thereto. Such a candidate must have cleared B. Sc. Part-I Examination.</b></p> <p><u>A candidate will be admitted to B.Sc. Part – III examination of this university, if he/she passes in all heads passing of university examination of B.Sc. Part – II (Sem. III &amp; IV taken together) or he will be allowed to keep term for B.Sc. Part – III if he/she is fail in not more than four heads of university examination i.e. Theory or Practical of B.Sc. Part – II (Sem. III &amp; IV taken together).</u></p> <p><u>Internal Examination will be compulsory for all students. If the student is absent/fail in internal examination then he/she will have to clear the internal examination in subsequent attempt in following semester.</u></p> <p><u>There will be a separate head of passing in Theory, Internal and Practical. However, ATKT rules will be followed in respect of Theory or Practical heads of passing only .</u></p>

	<p><b>B) No candidate shall be admitted to the B. Sc. Part-III Examination unless he has satisfactorily kept two terms for the same at a College affiliated to the University.</b></p>
<p><b>O. B. Sc. 4</b></p>	<p><b>Standard of Passing at B. Sc. Examination</b></p> <p>a) For a subject all papers shall form a separate head of passing i.e. Theory, Internal and the Practical.</p> <p>b) A student shall have to secure 35% of marks in Theory, Internal and Practical examination separately in order to pass in those heads of passing. He shall be declared to have passed the examination if he passes in all heads of passing at Parts-I, II &amp; III semester examinations separately.</p> <p>c) In order to secure a Second Class with Hons., a candidate shall have to obtain at least 45% marks in the aggregate at University Examination.</p> <p>d) In order to secure a First Class with Hons. a candidate shall have to obtain at least 60% of marks in the aggregate at University examination.</p> <p>e) A student shall be declared to have passed in First Class (Hons.) with Distinction, if he gets at least 70% of marks in the aggregate at University examination.</p> <p>f) The class will be awarded on the aggregate total of all the subjects of Parts-I, II &amp; III examinations, excluding the marks of English <u>or</u> Foundation Course at B. Sc. Part-III and English at B. Sc. Part-I.</p> <p>g) <b>A. T. K. T.:</b> A candidate will be admitted to B.Sc. Part – II examination of this university, if he/she passes in all heads of passing of university examination of B.Sc. Part – I (Sem. I &amp; II taken together) or he will be allowed to keep term for B.Sc. Part – II if he/she is fail in not more than four heads of Theory OR Practical examination of B.Sc. Part – I (Sem. I &amp; II taken together).</p> <p>A candidate will be admitted to B.Sc. Part – III examination of this university, if he/she passes in all heads passing of university examination of B.Sc. Part – II (Sem. III &amp; IV taken together) or he will be allowed to keep term for B.Sc. Part – III if he/she is fail in not more than four heads of Theory OR Practical examination of B.Sc. Part – II (Sem. III &amp; IV taken together).</p> <p><b>(Note :Theory and Practicals are separate heads of passing. A candidate may fail in not more than four heads of university examination.</b></p> <p>Internal Examination will be compulsory for all students. If the student is absent/fail in internal examination then he/she will have to clear the internal examination. There will be a separate head of passing in Theory, Practical &amp; Internal examination . However, ATKT rules will be followed in respect of Theory or Practical heads of passing only in subsequent attempt in following semester.)</p>



# **Shivaji University, Kolhapur**

Maharashtra State, India

Information Booklet of  
Choice Based Credit System and  
Open Elective Courses  
For  
Post Graduate Courses

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2.	➤ Department of Chemistry	
3.	➤ Department of Bio-Chemistry	
4.	➤ Department of Computer Science	
5.	➤ Department of Mathematics	
6.	➤ Department of Botany	
7.	➤ Department of Zoology	
8.	➤ Department of Microbiology	
9.	➤ Department of Biotechnology	
10.	➤ Department of Food Science and Technology	
11.	➤ Department of Statistics	
12.	➤ Department of Electronics	
13.	➤ Department of Environmental Science	
14.	➤ Department of Geography	
15.	➤ Department of Marathi	
16.	➤ Department of English	
17.	➤ Department of Hindi	
18.	➤ Department of Foreign Languages	
19.	➤ Department of History	
20.	➤ Department of Economics	
21.	➤ Department of Sociology	

22.	➤ Department of Political Science	
23.	➤ Department of Library and Information Science	
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## **A. The Concept of Choice Base Credit System (CBCS)**

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence in the Higher Education System of country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters.

The UGC has formulated various regulations and guidelines from time to time to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions (HEIs) in India. The academic reforms recommended by the UGC in the recent past have led to overall improvement in the higher education system. However, due to lot of diversity in the system of higher education, there are multiple approaches followed by universities towards examination, evaluation and grading system. While the HEIs must have the flexibility and freedom in designing the examination and evaluation methods that best fits the curriculum, syllabi and teaching-learning methods, there is a need to devise a sensible system for awarding the grades based on the performance of students. Presently the performance of the students is reported using the conventional system of marks secured in the examinations or grades or both. The conversion from marks to letter grades is used vary widely across the HEIs in the country. This creates difficulty for the academia and the employers to understand and infer the performance of the students graduating from different universities and colleges based on grades.

The grading system is considered to be better than the conventional marks system and hence it has been followed in the top institutions in India and abroad. So it is desirable to introduce uniform grading system. This will facilitate student mobility across institutions within and across countries and also enable potential employers to assess the performance of students. To bring in the desired uniformity, in grading system and method for computing the cumulative grade point average (CGPA) based on the performance of students in the examinations, the UGC has formulated these guidelines.

University Grants Commission has come up with the Choice Based Credit System (CBCS) programme in which the students have a choice to choose from the prescribed courses, which are referred as core, elective or minor or soft skill courses and they can learn at their own pace and the



entire assessment is graded-based on a credit system. The basic idea is to look into the needs of the students so as to keep up-to-date with development of higher education in India and abroad. CBCS aims to redefine the curriculum keeping pace with the liberalization and globalization in education.

### **Features of CBCS**

- Availability of three types of credit courses: Core, Elective and Foundation or Open Elective Courses.
- Availability of non-credit courses which are assessed as ‘Satisfactory’ or ‘Unsatisfactory’ and free from SGPA/CGPA.
- Evaluation and assessment of the three main CBCS courses for the accomplishment of the global standards in higher education and local needs of the society.

### **B. Definition of Key words**

**It has the following basic elements:**

- **Semesters:** The assessment is done semester wise. A student progresses on the basis of the courses taken rather than time for two years of their Post-graduation. Each semester will have 15–18 weeks of academic work which is equal to 90 teaching days. There is flexibility in creating the curriculum and assigning credits based on the course content and hours of teaching.
- **Credit system:** Each course is assigned a certain credit. When the student passes that course, he earns the credits which are based on that course. If a student passes a single course in a semester, student does not have to repeat that course later. The students can earn credits according to his pace.
- **Credit transfer:** If for some reasons, student cannot cope with the study load or if he falls sick, student has the freedom to study fewer courses and earn fewer credits and he can compensate this in the next semester.
- **Comprehensive continuous assessment:** There is a continuous evaluation of the student not only by the teachers but also by the student himself.

### Grade Points Table

Chart- A Applied to all subjects except Mathematics		Chart- B for Mathematics	
Range of Marks obtained out of 100 or any fractions	Grade Points	Range of Marks obtained out of 120 or any fractions	Grade Points
00 to 5	0	00 to 6	0
6 to 10	1	07 to 12	1
11 to 15	1.5	13 to 18	1.5
16 to 20	2	19 to 24	2
21 to 25	2.5	25 to 30	2.5
26 to 30	3	31 to 36	3
31 to 35	3.5	37 to 42	3.5
36 to 40	4	43 to 48	4
41 to 45	4.5	49 to 54	4.5
46 to 50	5	55 to 60	5
51 to 55	5.5	61 to 66	5.5
56 to 60	6	67 to 72	6
61 to 65	6.5	73 to 78	6.5
66 to 70	7	79 to 84	7
71 to 75	7.5	85 to 90	7.5
76 to 80	8	91 to 96	8
81 to 85	8.5	97 to 102	8.5
86 to 90	9	103 to 108	9
91 to 95	9.5	109 to 114	9.5
96 to 100	10	115 to 120	10

- **Grading:** Shivaji University has introduced a Seven-point grading system as follows:

GRADES	CGPA CREDIT POINTS
0	8.60 To 10
A+	7.00 To 8.59
A	6.00 To 6.99
B+	5.50 To 5.99
B	4.50 To 5.49
C	4.00 To 4.49
D	0.00 To 3.99

Overall Final Grades	Class		Grade
8.60 To 10	Higher Distinction Level	Extraordinary	O
7.00 To 8.59	Distinction Level	Excellent	A+
6.00 To 6.99	First Class	Very Good	A
5.50 To 5.99	Higher Second Class	Good	B
4.50 To 5.49	Second Class	Satisfactory	B+
4.00 To 4.49	Pass	Fair	C
0.00 To 3.99	Fail	Unsatisfactory	10

One credit per semester is equal to one hour of teaching, which includes both lecture (L) or tutorial (T) or two hours of practical work/field work (P) per week. A study course can have only L component or only T or P component or combination of any two or all the three components. The total credits earned by a student for each semester is L+T+P.

### **C. Advantages of Choice Based Credit System**

- The CBCS offers a 'cafeteria' approach in which the students can choose courses of their own choice.
- The credit system allows a student to study what he prefers in his own sequence as per his interests.
- They can learn at their own pace.
- They can opt for additional courses and can achieve more than the required credits.
- They can also opt for an interdisciplinary approach to learning.
- Inter college/university migration within the country and outside becomes easy with the transfer of Credits. This means that it will be easier for foreign universities to come and offer courses in India.
- Can opt for one part of the course in one institute and the other part in another institute. This will help in making a clear choice between good and bad colleges/ institutes.
- The students have more scope to enhance their skills and more scope of taking up projects and assignments, vocational training, including entrepreneurship.
- The system improves the job opportunities of students.
- The system will help in enabling potential employers assess the performance of students on a scientific scale.

**D. LIST OF POST-GRADUATE DEPARTMENTS & PROGRAMS UNDER CBCS**

<b>Sr. No.</b>	<b>Faculty</b>	<b>Name of department/school</b>	<b>Title of program</b>	<b>Intake</b>	<b>Duration (year)</b>	<b>Total credits</b>
1.	Science And Technology	Physics	M.Sc.	70	2	96
2.	Science And Technology	Chemistry	M.Sc.	60	2	96
3.	Science And Technology	Bio-Chemistry	M.Sc.	25	2	96
4.	Science And Technology	Computer science	M.Sc.	60	2	96
5.	Science And Technology	Computer science	M.C.A.	60	3	150
6.	Science And Technology	Mathematics	M.Sc.	60	2	96
7.	Science And Technology	Botany	M.Sc.	55	2	96
8.	Science And Technology	Zoology	M.Sc.	66	2	96
9.	Science And Technology	Microbiology	M.Sc.	35	2	96
10.	Science And Technology	Biotechnology	M.Sc.	30	2	96
11.	Science And Technology	Food science and technology	M.Sc.	40	2	96
12.	Science And Technology	Statistics	M.Sc.	30	2	96
13.	Science And Technology	Electronics	M. Sc.	36	2	96
14.	Science And Technology	Environmental Science	M.Sc.	50	2	96
15.	Science And Technology	Geography	M. A. M.Sc.	50	2	96
16.	Humanities	Marathi	M. A.	77	2	64
17.	Humanities	English	M. A.	60	2	64
18.	Humanities	Hindi	M. A.	60	2	64
19.	Humanities	Foreign Languages	M. A.	15	2	64
20.	Humanities	History	M. A.	55	2	64
21.	Humanities	Economics	M.A.	60	2	64
22.	Humanities	Sociology	M. A.	60	2	64
23.	Humanities	Political Science	M. A.	60	2	64
24.	Humanities	Library and	M. Lib	20	2	

		Information Science				
25.	Commerce and Management	Commerce and Management	M. Com	50	2	64
26.	Commerce and Management	Commerce and Management	MBA	60	2	128
27.	IDS	Education	M. Ed.	50	2	
28.	IDS	Women Studies	M.A.	25	2	64

**Note:**

Curriculum including Course Structure, Syllabi, Scheme of marking and other details are available on University website [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

## Details of Open Elective Papers offered under CBCS at PG Level

Sr. No.	Open Elective Title of the paper	Credits assigned to the paper	Semester for which course is offered	Eligibility
<b>Department of Physics</b>				
1.	CBP-I Data Analysis and Statistical Software	2	Semester III	M.C.A., M.Sc. (Electronics, Mathematics, Statistics & Physics), *M.Tech. (All trades), *M.A. (Economics)
	CBP-II Numerical Computing Using MATLAB	2		M.C.A., M.Sc. (Electronics, Mathematics, Statistics & Physics), *M.Tech. (All trades)
	CBP-III Computational Programming using Mathematica	2		M.C.A., M.Sc. (Electronics, Mathematics, Statistics & Physics), *M.Tech. (All trades)
	P-IV Computational methods and Programming	4	Semester IV	M.C.A., M.Sc. (Electronics, Mathematics, Statistics & Physics), *M.Tech. (All trades)
	CBP-V MATLAB Programming and applications	2		M.C.A., M.Sc. (Electronics, Mathematics, Statistics & Physics), *M.Tech. (All trades)
	CBP-VI Electronic Devices-	4-credits		M.C.A., M.Sc. (Electronics, Mathematics, Statistics & Physics, Chemistry), *M.Tech. (All trades)
<b>Note :</b> (*) Papers are made available to all the Science and Technology students.				
<b>Department of Chemistry</b>				
2.	Basic Concepts in Chemical analysis	1	Semester I	B. Sc.-III
	Fundamentals of Spectroscopic techniques for Chemical analysis	1	Semester II	B. Sc.-III
	Chemistry of Nonomaterials	1	Semester III	M.Sc.-I
	Fundamentals of Chromatographic techniques	1	Semester IV	M.Sc.-I
<b>Department of Bio-Chemistry</b>				
3.	Cell Biology, Microbiology and Virology (59777)	4	Semester I	Prerequisite: B. Sc. Life Science/Chemistry

	Cell Biochemistry (64041)	4		Prerequisite: B. Sc. Life Science/Chemistry
	Immunochemistry (64162)	4	Semester III	Prerequisite: BC141
	Fermentation Technology – I (64161)	4		Prerequisite: LS141, TB241, GE341
	Bioinformatics (65088)	4	Semester I	Prerequisite: BSI 141
<b>Department of Computer Science</b>				
4.	CS 2131 Web Designing	4	Semester I	Any Graduate
	CS 2231 Android Fundamentals Development	4	Semester II	Any student pursuing M.Sc/MCA/M.Tech with knowledge of Java Programming
	CS 2313 Data Mining	4	Semester III	Knowledge of Database
	CS 2313 Open Source Softwares	4		B.Sc Computer, BCS
<b>Department of Mathematics</b>				
5.	Introduction to Latex	1	Semester III	Any Graduate with basic knowledge of Computer & Mathematics.
	Introduction to Latex	1	Semester IV	Any Graduate with basic knowledge of Computer & Mathematics.
<b>Department of Botany</b>				
6.	Plant Science, Human progress and prosperity	4	Semester III	All PG Students
	Plants – A Biological Capital	4	Semester IV	All PG Students
<b>Department of Zoology</b>				
7.	Applied Zoology	4	Semester III	M.Sc./M.A./M.Com admitted students
	Reproductive Biology	4	Semester IV	M.Sc./M.A./M.Com admitted students
<b>Department of Zoology</b>				



<b>Department of Microbiology</b>				
8.	Cell Biology, Microbiology and Virology (59789)	4	Semester I	Prerequisite: B. Sc. Life Science/Chemistry
	Immunology (63246)	4	Semester III	Prerequisite: BC141, BC 241
	Microbial Fermentation Technology (63250)	4	Semester IV	Prerequisite: FT 341
<b>Department of Biotechnology</b>				
9.	65080-Advance in Genomics & Proteomics	4	Semester IV	Candidate should be pass the Molicular Biology & Genetic Engineering of Sem II & Sem IV
<b>Department of Food Science and Technology</b>				
10.	Principle of food processing and preservation	4	Semester I	Any M. Sc. Graduate
	Fermentation Technology	4	Semester I	Any M. Sc. Graduate
<b>Department of Statistics</b>				
11.	An introduction to MINITAB	1	Semester III	All Science and Technology
	An introduction to SPSS	1		All Faculty
	An introduction to MATLAB	1		Mathematics, Electronics, Physics, Engineering
	An introduction to R software	1		Mathematics, MCA, Computer Science (Excluding Statistics)
	Design of Experiments for Applied Research	1		All Faculty
	Design and Analysis of Laboratory Experiments	1	Semester IV	All Faculty (Excluding Statistics)
	MATLAB Programming	1		Mathematics, Electronics, Physics, Engineering
	An introduction to SAS	1		Mathematics
	Advanced course in MSEXCEL	1		All faculty

<b>Department of Electronics</b>				
12.	EA11 – Microcontroller Programming in Embedded C	2	Semester I	Science graduate with Electronics at B.Sc. II
	EA12 – Principles of Digital Design	2		Science graduate with Electronics at B.Sc. II
	EA13 – Audio and Video Editing	2		Any Science graduate
	EA21 – Introduction to LINUX	2	Semester II	BCS, BCA or Science graduate with Electronics/ Computer Science at B.Sc. II
	EA22 – Project Design using MCS51 Family	2		Science graduate with Electronics at B.Sc. II
	EA23 – Audio and Video Editing	2		Any Science graduate
	EA31 – Soft Computing Techniques	2	Semester III	Science graduate with Electronics at B.Sc. II
	EA41 – Internet and Applications	2	Semester IV	Science graduate with Electronics at B.Sc. II
<b>Department of Environmental Science</b>				
13.	Paper IV: Information Technology in Environmental Sciences	4	Semester I	All science faculty
	Paper VI: Environmental Pollution	4	Semester II	All science faculty
	Vermi-composting	1	Semester III	All faculty
	Paper XIV Environmental Hazards and Disaster Management	4	Semester IV	All science faculty
<b>Department of Geography</b>				
14.	Economic geography GCT-103	4	Semester I	PG students of Economics
	Social & Cultural geography GCT-208	4	Semester II	PG students of Sociology
	Fundamental & Applications of Remote Sensing GCT-310	4	Semester III	PG students of Physics ,Botany, Environment
	Geography of Tourism GCT-302	4		PG students of Management (MBA)
	Settlement Geography GCT-406	4	Semester IV	PG students of Sociology

<b>Department of Marathi</b>				
15.	आंतरभारतीय साहित्याचा अभ्यास	4	Semester I	Any Graduate
	सर्जनशीललेखन	4		Any Graduate
	भाषांतरमीमांसा	4		Any Graduate
	आंतरभारतीय साहित्याचा अभ्यास	4	Semester II	Any Graduate
	सर्जनशीललेखन	4		Any Graduate
	भाषांतरमीमांसा	4		Any Graduate
	तौलनिकसाहित्य	4	Semester III	Any Graduate
	ग्रंथइतिहास	4		Any Graduate
	ग्रंथप्रकाशनआणिसंपादन	4		Any Graduate
	तौलनिकसाहित्य	4	Semester IV	Any Graduate
	ग्रंथइतिहास	4		Any Graduate
	ग्रंथप्रकाशनआणिसंपादन	4		Any Graduate
<b>Department of English</b>				
16.	'Introduction to Modern Linguistics'	4	Semester I	All faculty PG students
<b>Department of Hindi</b>				
17.	<b>P IV Elective Papers</b>			
	अ. भाषा प्रौद्योगिकी ।	1	Semester I	Open to all
	ब. अनुवाद प्रौद्योगिकी।	1		
	क. हिंदी कथा साहित्य ।	1		
	ड. हिंदी व्याकरण, मानकलेखन तथा मुद्रित शोधन ।	1		
इ. हिंदीसम्प्रेषणकौशल	1			

	<b>P VIII Elective Papers</b> अ. भाषा प्रौद्योगिकीII ब. अनुवाद प्रौद्योगिकीII क. हिंदी कथा साहित्य II ड. हिंदी व्याकरण, मानकलेखन तथा मुद्रित शोधन II इ. पटकथा लेखन तथा लघुपटनिर्माण	1 1 1 1 1	Semester II	Open to all
	<b>XII Elective Papers</b> भाषा प्रौद्योगिकीIII	1	Semester III	Open to all
	<b>XVI Elective Papers</b> भाषा प्रौद्योगिकीIV	1	Semester IV	Open to all
<b>Department of Foreign Language</b>				
18.	Introduction to Russian Culture	1	Semester II/ IV	-
<b>Department of History</b>				
19.	HS- 111 : 19th Century Maharashtra	4	Semester I	Graduate of any stream
	HS-208 : India's Struggle for Independence	4	Semester II	
	HS-306 : Theory and Concept of Museology	4	Semester III	
	HS- 411: History of Arab-Israel Conflict in 20th Century	4	Semester IV	
<b>Department of Economics</b>				
20.	Economics of Environment EO-2	4	Semester I	Any student admitted to PG Course
	Economics of Insurance EO-3	4		
	Economic Thoughts of Dr. B.R. Ambedkar EO-16	4	Semester II	
	Financial Markets and Institutions EO-13	4		
	Mathematical Economics EO-21	4	Semester III	

	Demography EO-22	4		
	Econometrics EO- 31	4	Semester IV	
	Economic Thoughts of Chh. Shahu EO-32	4		
<b>Department of Sociology</b>				
21.	SOE-09 Society and Culture in Maharashtra	4	Semester I	Any student admitted to PG Course
	SOE – 20 Criminology	4	Semester II	
	SOE – 28 Sociology of Health	4	Semester III	
	SOE - 37 Media & Society.	4	Semester IV	
<b>Department of Political Science</b>				
22.	E01: State in Ancient India	4	Semester I	Any Student doing Post Graduation (Sem-I)
	E02: Foreign Policy of India	4		
	E03: Modern Political Ideologies	4		
	E04: Political Thought of Dr. B R. Ambedkar	4		
	E05: Social Movements in India	4		
	E06: Human Rights in India	4	Semester II	Any Student doing Post Graduation (Sem-II)
	E07: Political Sociology	4		
	Parliamentary Institution	4		
	E09: Political Process in North East	4		
	E10: State Politics in India	4		
	E11: Women and Politics	4		
	E12: UN&Regional Organizations	4		

	Communal Harmony & Social Peace	4	Semester III	Any Student doing Post Graduation (Sem-III)
	Election Studies	4	Semester IV	Any Student doing Post Graduation (Sem-IV)
<b>Library and Information Science</b>				
23.	Research Methods and Statistical Techniques sub code: 47764	4	Semester I	Any Bachallors Degree
	Research Methods and Statistical Techniques sub code: 47764	4	Semester II	
<b>Department of Commerce</b>				
24.	Management concepts and Organization Behavior (Paper I)	4	Semester I	Any Graduate
	Management concepts and Organization Behavior (Paper II)	4	Semester II	
	Research Methodology (Paper V)	4	Semester III	
	Research Methodology (Paper VI)	4	Semester IV	
<b>M. B. A.</b>				
25.	Indian Financial System Paper I	4	Semester III	Any Graduate other than M. Com
	Employee Relations & Labour Laws	4	Semester IV	Any Graduate other than M. Com
<b>Department of Education</b>				
26.	Educational Management op-IV(B)	4	Semester I	This Elective will be open under CBCS scheme to all the Disciplines M.A/M.Sc /M.com
	Educational Measurement & Evaluation op-VIII(D)	4	Semester II	This Elective will be open under CBCS scheme to all the Disciplines M.A/M.Sc /M.com
<b>Department of Women Studies</b>				
27.	Introduction to Western Feminist Thought	4	Semester I	i.Enrollment for M.A. programme under the Faculty of Social Sciences

			ii. English language competence, as most of the material is available primarily in English
UGC Recommended Course in Gender Sensitisation	2		Enrollment for M.A. programme under the Faculty of Social Sciences
Prevention of Sexual Harassment at Workplace	4	Semester II	i. Enrollment for M.A. programme under the Faculty of Social Sciences ii. English language competence, as most of the material is available primarily in English
UGC Recommended Course in Gender Sensitisation	2		Enrollment for M.A. programme under the Faculty of Social Sciences
Prevention of Sexual Harassment at Workplace	4	Semester III	i. Enrollment for M.A. programme under the Faculty of Social Sciences ii. English language competence, as most of the material is available primarily in English
UGC Recommended Course in Gender Sensitization	2		Enrollment for M.A. programme under the Faculty of Social Sciences
Gender and Environment	4	Semester IV	i. Enrollment for M.A. programme under the Faculty of Social Sciences ii. English language competence, as most of the material is available primarily in English
Gender and International Development	4		i. Enrollment for M.A. programme under the Faculty of Social Sciences ii. English language competence, as most of the material is available primarily in English
UGC Recommended Course in Gender Sensitisation	2		Enrollment for M.A. programme under the Faculty of Social Sciences

**Note:**

The detailed syllabi of the Course and that of Open Electives are available on University Website [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

### **E. Procedure for choosing Open Elective Course:**

1. At the beginning of the term an eligible student will apply for the Open Elective he/she wants to choose to the department concerned.
2. An application in the prescribed format (Appendix - I) duly filled. It should be submitted to the concerned Department by the Department, where he/she is studying within stipulated time.
3. The Department after receiving such applications scrutinized application for eligibility and display the names of students selected for the open elective course on the Notice board. Such names should also be sent to the Departments of the selected students.
4. Time table for open electives should be prepared so as to make it convenient to the students opting for the Open electives. As far as possible time of such course be in afternoon. Dean of the concerned faculty shall guide for fixing the common time table.
5. Examination of Open Electives having credit more than 2 will be conducted by the University Examination Section while for other having credit less than equal to 2 will be conducted by the concerned Department. In such case Department shall communicated marks of open electives to the Examination Section within week of the examination.
6. Any difficulty in conduct of open elective come shall be resolved in consultation with Dean of the concerned faculty.
7. List of open elective shall be updated at least once in three years. Department should take or review & response to the open elective offered and take appropriate measures so as to extend maximum be needful of the courses is the students community.



# SHIVAJI UNIVERSITY, KOLHAPUR

## Appendix I

### Application form for Registration to Open Courses under CBCS

(To be submitted in triplicate for each Open Course applied for .....)

1. Name of Student .....
2. Name of Department /Centre: .....
3. PRN: .....

4. Name / Number of Open Course applied for:

- i).....
- ii).....
- iii).....

5. Department offering Open Course

- i).....
- ii).....
- iii).....

Signature of Student.....

Signature of Head of the Department with seal.....

Accepted/ Not Accepted

Signature of Head of Department / Centre servicing the Open Course\_\_\_\_\_

Copy to : Head, Parent Department

: Department where student is applying for Open Course

: The Director, Examinations and Evaluati

