

Devchand College Arjunnagar
Department of Electronics
B. Sc. Electronics

B.Sc.I Programme Outcomes

- Acquire sound knowledge of Electronics science and technology.
- Learn the latest trends in Electronics.
- To become researchers and developers to satisfy the needs of the core Electronics Industry.
- Formulate, analyze and solve real life problems faced in Electronics Industry.

Course Outcomes

B. Sc. - I (2018-19) Semester-I Electronics Paper- I
DSC- A9 NETWORK ANALYSIS AND ANALOG ELECTRONICS

Course Outcomes: After studying this course the students are able to –

- Understand basic components and basic laws and theorems.
- Understand PN junction diode its applications
- Applications of PN junction

Semester-I Electronics Paper- II
DSC- A10 DIGITAL INTEGRATED CIRCUITS

After studying this course the students are able to –

- Understand different number systems and codes
- Understand logic gates and basics of Boolean algebra
- Study the combinational logic, analysis and design
- Acquire skills in arithmetic circuits and data processing circuits

B Semester- II Electronics Paper- III
DSC- B9 ANALOG ELECTRONIC CIRCUITS

: After studying this course the students are able to –

- Understand BJT and amplifiers
- study the oscillators
- Understand unipolar devices

Semester- II Electronics Paper- IV
DSC- B10 LINEAR AND DIGITAL INTEGRATED CIRCUITS

Course Outcomes: After studying this course the students are able to –

- Understand sequential circuits
- Study shift registers and counters.
- Skill in using op-amps.
- Applications of IC 555 as multivibrator circuits

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B.Sc.II Programme Outcomes

- Acquire sound knowledge of Electronics science and technology.
- Learn the latest trends in Electronics.

- To become researchers and developers to satisfy the needs of the core Electronics Industry.
- Formulate, analyze and solve real life problems faced in Electronics Industry.

Course Outcomes

Semester – III Paper – V (Communication Electronics)

Course Outcomes: After studying this course the students are able to –

- Understand functioning of basic communication systems.
- Understand analog modulation & demodulation techniques.
- Understand satellite communication & navigation systems.

Semester – III Paper – VI

(Introduction to microprocessor 8085 and Microcontroller 8051)

After studying this course the students are able to –

- Understand microcomputer organization and architecture of μ P 8085.
- Understand instruction set
- Acquire skill of programming of μ P 8085.
- Understand 8051 family and architecture of μ C 8051.

Semester – IV Paper – VII

(Digital modulation and mobile telephone systems)

Course Outcomes: After studying this course the students are able to –

- Understand analog pulse modulation techniques viz. PAM, PWM & PPM.
- Understand digital pulse modulation techniques viz. ASK, FSK PSK & BPSK.
- Understand mobile telephone system and networks Viz GSM, CDMA, TDMA & FDMA.

Semester – IV Paper – VIII

(Microcontroller and Embedded Systems)

Course Outcomes: After studying this course the students are able to –

- Understand addressing modes and instruction sets of μ C 8051.
- Understand facilities in μ C 8051 viz. timer, time delay calculations in different modes and serial communications.
- Get the skill of programming of μ C 8051.
- Application in real world interfacing of μ C 8051.
- Introduction to embedded system and programming in C.