

B.Sc (ELECTRONICS)

PROGRAM OUTCOME

After obtaining B.Sc. degree in electronics student become self equipped to work as Jr. Engineer or Sr. technician in any electronics industry. They can also start their own workshop for servicing and maintenance of different electronics appliances. Students have ability to design and conduct experiments as well as to analyze and interpret data. In present world of technology electronics become backbone of any modern gadgets. Hence such type of degree level program are very essential and useful to electronic and computer industry.




PRINCIPAL
V P & R. P. T. P. SCI. COLLEGE
VALLABH VIDYANAGAR-388120.

B.Sc (ELECTRONICS) SEM -5 & 6

SUBJECT: DIGITAL SYSTEM I & II

COURSE CODE: US05CELE02 &US06CELE02

In this paper of digital system students study from the basic building block of the digital electronics i.e flip-flops ,counters, registers, memories , analog and digital converter and so the student get acquainted to different topics necessary in digital electronics thus a students ,who has studied this can troubleshoot different types of digital instruments and can also different types of simple timer circuit and use it in different(computer, home, industrial etc.) applications.



A handwritten signature in blue ink, appearing to be "V. V. Nagar".

PRINCIPAL

V P & R. P. T. P. SCI. COLLEGE
VALLABH VIDYANAGAR-388120.

B.Sc (ELECTRONICS) SEM -5 & 6

SUBJECT: ANALOG COMMUNICATION AND FIBER OPTICS I & II

COURSE CODE: US05CELE06 &US06CELE06

In this paper student study the theory of radio receiver television receiver and also fiber optics in this course they get information of radio communication and receiving also of television color and black and white and more over they have complete knowledge of fiber optic cables, sources and detectors. They will also get knowledge about trouble shooting of radio receiver, T.V receiver and fiber optic communication. Thus they can get job as a electronics engineer.




PRINCIPAL
V.P. & R.P.T.P. SCI. COLLEGE
VALLABH VIDYANAGAR-388120.

B.Sc (ELECTRONICS) SEM -5 & 6

SUBJECT: INDUSTRIAL ELECTRONICS I & II

COURSE CODE: US05CELE05 &US06CELE05

Content of this course largely related to electrical engineering. As electrical and electronics are closely related hence these papers are very important for any electronics students. In these paper students learn different high power devices used in electrical appliances and industrial instruments. After studying these papers students can design and develop electrical system. Students can also operate and set control parameter of industrial instruments. They also become enable to service and repair basic electrical and electronics instruments.




PRINCIPAL
V P & R. P. T. P. SCI. COLLEGE
VALLABH VIDYANAGAR-388120.

B.Sc (ELECTRONICS) SEM -5 & 6

SUBJECT: 8-BIT MICROPROCESSOR PROGRAMMING AND APPLICATION-I & II

COURSE CODE: US05CELE03 &US06CELE03

By learning about two courses of 8085microprocessor students will come across fundamental study of microprocessor including its full block diagrams and actual working of each section. Students will also learn programming and basic applications of 8085 system. After studying entire syllabus of above paper students can independently write programs and design basic applications in electronics circuits and instruments.



A handwritten signature in blue ink, appearing to be "Principals".

PRINCIPAL

**V P & R. P. T. P. SCI. COLLEGE
VALLABH VIDYANAGAR-388120.**

US05CELE04 (Instrumentation Part I)

The Instrumentation Part I paper comprises of detailed study of various instruments used for measurement of various unknown parameters such as voltage, current and Power measurement. By studying this subject they will come to know about the actual circuit present within the instrument as well as how each component and entire circuit works in unison. They will also get knowledge about the trouble shooting of the instrument in case of defect in the instrument.

US05CELE01 (Discrete and linear Circuits)

This paper comprises of fundamental knowledge about the various discrete circuits. By learning this subject students will come to know about various feedback circuits, their working and the advantages and disadvantages of positive and negative feedback. With the knowledge of feedback circuit they can design oscillator circuit which is backbone of Sine wave generator. The student will also get detailed knowledge of various regulated power supply made using regulator ICs such as 7805, 7905, 723 etc. They also get knowledge by SMPS.




PRINCIPAL
V.P. & R.P.T.P. SCI. COLLEGE
VALLABH VIDYANAGAR-388120.