

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR



Department of Electronics

Session 2019-20

B.Sc. First Year Semester-I

BRIDGE COURSE: ELECTRONICS

Report: Bridge Course Conducted by Electronics Department, S.S.E.S. Amravati's Science College, Congress Nagar, Nagpur

The Electronics Department of S.S.E.S. A's Science College, Nagpur, conducted a Bridge course as per the RTMNU (Rashtrasant Tukadoji Maharaj Nagpur University) notification for B. Sc. First-year Sem I students in the academic year 2019-20. The aim of the Bridge course was to bridge the gap between the syllabus covered in the 12th Std. and the detailed curriculum of B.Sc. Sem - I.

The B.Sc. Sem - I RTMNU syllabus encompassed fundamental topics such as:

- Importance of Electronics.
- Need for Electronics literacy in society.
- Electronics in the 21st Century.
- Importance of Electronics in daily life.
- Carrier opportunities in Electronics.
- Miracles from Electronics.

Students enrolled in B.Sc. Sem I after successfully qualifying for their 12th Exam, and the Bridge course served as a foundational step in transitioning them from the Std. 12th curriculum to the rigorous academic demands of B.Sc. studies.

Syllabus:

Electronics paper-I:

- 1) Basic components: Resistors, Capacitors, Inductors, Transformers, etc.
- 2) Semiconductor basics: Atomic structure, classification of materials, semiconductor, PN junction, types of diodes.
- 3) Circuit analysis: Ohm's law, Kirchoff's current law, Kirchoff's voltage law and power supply.

Electronics paper-I:

- 1) Difference between Analog and Digital circuits, difference between AC and DC circuits.
- 2) Digital Electronics: Positive logic and Negative logic system, study of basic logic gates.
- 3) Switching circuits: Representation of LOW voltage level and HIGH voltage level in digital circuits.

Course Outcome:

- Learners will develop interest in the subject of Electronics and it will also be useful to fill the gap.
- To make the students familiar with the basic concepts of Electronics.
- To encourage and motivate the students for the technical education.
- To make the students aware towards the various branches of Electronics. For example: Circuits, Networks, and Communication and Embedded systems.

- Class :- B. Sc. - 1 (1& II Sem) Subject :- ECSM

Shri Shivaji Education Society Amravati;s Month Science College, Congress Nagar, Nagpur. Name of Teacher :- M. T. Hedau

: Any Sep- 2019

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Class :- B. Sc. - 1 (1 & II Sem)

Shri Shivaji Education Society Amravati;s Month

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Subject :- PEM Theory / Practical Science College, Congress Nagar, Nagpur. Name of Teacher :- M.J. Hedaw 2019-20 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Sr. No Roll Students Full Name 1 PRACHI RAMAJI RAUT 2 KHUSHI MULCHAND PANJWANI 3 JAYA SUKHSEN VERMA 4 JANAVI CHANDRASHEKHAR NIMKAR 5 SURAJ RAJESH MANDHARE 6 SANKET SHATRUGHANRAO MASRAM 7 SHANTANU PREMDAS CHAVAN 8 GANESH ANANDRAO MORE 9 SHIVAM TAMESHWAR SELOKAR 10 SAPNA HARISHANKAR SAHU 11 VIVEK SURENDRABABU BAGHFL 12 AYUSH SANJAY WANKHEDE 13 VIPLAV VIRENDRA KAMBLE 14 PRERNA AMIT AMBADE 15 SHAKSHIT JANARDHAN WAHANE 16 MANSHREE P. MENDHULKAR 17 PRIYANKA SANJAY KIRTIWAR 18 BHARTI ASHOK BOPCHE 19 ISHA KAWDUJI MESHRAM 20 ATHARVA MILIND SARAYKAR 21 SAKSHI ANIL SONTAKKE LOKESH DHARMENDRA GUPTA

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