



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



## Department of Electronics

**Session 2021-22**

**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 2021-22. The aim of the Bridge course was to bridge the gap between the syllabus covered in the 12<sup>th</sup> 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 21<sup>st</sup> Century.
- Importance of Electronics in daily life.
- Career opportunities in Electronics.
- Miracles from Electronics.

Students enrolled in B.Sc. Sem I after successfully qualifying for their 12<sup>th</sup> Exam, and the Bridge course served as a foundational step in transitioning them from the Std. 12<sup>th</sup> 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. - I (I & II Sem)

Subject :- ECSM Section :- A Batch :- M - 10

Theor Theory / Practical

Shri Shivaji Education Society Amravati;

Science College, Congress Nagar, Nagpur.

2021 - 2022

Month

Name of Teacher :- S. M. Ghoshole

September/October 2021

2021 - 2022																																	
Sr. No	Roll	Students Full Name	Total upto last Month		Periods	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total							
			Deli	Att		Date / Contact No.	8-9-21	9-9-21	10-9-21	11-9-21	12-9-21	13-9-21	14-10-21	15-10-21	16-10-21	17-10-21	18-10-21	19-10-21	20-10-21	21-10-21	22-10-21	23-10-21	24-10-21	25-10-21	26-10-21	27-10-21	28-10-21	29-10-21	30-10-21	Current Month		Prograssive Month	
																														Deli	Att	Deli	Att
1		Ku AMBEKAR NIHARIKA MAHESH				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P								
2		AMNERKAR ASHUTOSH DHARMENDRA				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
3	Ku	BARAJ YOGESHREE DINESH				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
4	Ku	BARAMATE KHUSHI SHASHIKANT				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
5		BARAPATRE ANIKET PURUSHOTTAM				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
6	Ku	DANGE PRATIKSHA BABAN				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
7	Ku	DESHBHARAT PARMITA SIDDHARTH				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
8	Ku	DOKWAL SHIREYA NARENDRA				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
9		GUMGAONKAR PRATHMESH DINESH				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
10	Ku	GUNDE CHINMAYEE MANGESH				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
11	Ku	JADHAV AKSHATA SUNIL				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
12	Ku	JIBHAKATE VAIDEHI SUNIL				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
13	Ku	JUNANKAR GAYATRI PRAVIN				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
14		KHADKOTKAR ARNAV SANDEEP				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
15	Ku	KHIANI VISHAKA MANGHANLAL				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
16	Ku	KIRPAN AKANKSHA KUMESHWAR				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
17	Ku	KOCH PRIYANSH BABURAO				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
18		KUMBHRE YASH RAMESHWAR				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
19		KUMRE PUSHPAK SUDESH				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							
20	Ku	LANJEWAR SAKSHI MOJIKAM				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							

Professor & Head  
Department of Electronics,  
Shri Shivaji Science College,  
Congress Nagar, Nagpur.

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							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Deli	Att	Deli	Att
21		Ku MAKODE HARSHU CHANDU				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
22		NAGARDHANKAR SARVESH LILADHAR				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
23		Ku PATIL RUDHALI RAMESH				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
24		RANGARI HARSHAL BHOJRAJ				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
25		Ku RAO KIRAN SHANTA				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
26		Ku SAMARTH SHRUTI SUNIL				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
27		SANGITRAO VIPUL DIPAK				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
28		Ku SONTAKKE NUPUL MAHENDRA				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
29		Ku TAKALKHEDE DISHA SUNIL				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
30		TAMBUSKAR RUSHIKESH SATISHRAO				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
31		Ku THAKRE KRUTIKA NIRAJ				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
32		Ku UPRADE SAUMYA FULSING				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
33		WAKDE SANCHIT CHANDRASHEKHAR				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					

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