



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



## Department of Electronics

### Bridge Course

Session 2024-25

**B.Sc. FIRST YEAR SEMESTER-I**

**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, Nagpur) notification for B.Sc. First-year Sem-I students in the academic year 2024-25. 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.
- Carrier 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. Electronics 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-II:**

- 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, Communication and Embedded systems.

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

Major Sub. :- Electronics Section:- D Batch :- E Theory / Practical

Shri Shivaji Education Society Amravati:  
Science College, Congress Nagar, Nagpur.  
2024 - 2025

Month August / Sep  
Name of Teacher :- Sonali Y. Maske

Sl. No.	Ro. No.	Students Full Name	Attendance Last Month		Periods Date / Contact No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total					
			Del	Att		20/08/24	21/08/24	22/08/24	23/08/24	24/08/24	25/08/24	26/08/24	27/08/24	28/08/24	29/08/24	30/08/24	31/08/24	01/09/24	02/09/24	03/09/24	04/09/24	05/09/24	06/09/24	07/09/24	08/09/24	09/09/24	10/09/24	11/09/24	12/09/24	Current Month Del Att	Progressive Month Del Att
1	Ku	SANJANA RAMADHAR YADAV	70.5	7798334261	P	P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
2	Mr	TANMAY MUKESH DONGARE	64	8080720128	P	P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
3	Ku	GUNGUN DHANRAJ PANDE	63.17	9370498158	P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
4	Mr	YASH NITIN BAJANGHATE	62.5	7666249216	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
5	Ku	GRISHAMA PRASHANT RANDIVE	61	8766628171	P	P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
6	Ku	VISHAKHA RAVISHANKAR BAWARIYA	60	9823943618	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
7	Ku	SRUSHTI GAJANAN SINGEWAR	59.17	9370835587	P	.	P	P	P	P	P	P	P	P	P	P	P	.	P	.	P	P	P	P	P	P	P	P			
8	Ku	ALKAMA TAHURA JAVED ALI	56.83	9665510213	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
9	Ku	SAYMA TABASSUM FAIYAZ FAROOQUE	56.33	8668656030	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
10	Ku	ATHARVA PRAMOD JONHULKAR	52.83	7499802463	.	P	.	.	.	P	P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
11	Mr	ADITYA RAJ BAHORIYA	51.83	7249546446	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
12	Mr	AMEER ASHRAF	50.17	9960603465	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
13	Mr	HARDIK SUDESH DHANJODE	48.83	8087265106	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
14	Mr	AAYUSH JAINDRA NIMJE	47	9689428668	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
15	Ku	FARHANRAZA ABDUL MATIN KHALID	46	9823132601	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
16	Mr	HIMANSHU AMRUT KAMBLE	45.33	9049553632	.	.	.	.	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
17	Mr	HEMANT RAMESHWAR NIMJE	45	9922113025	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
18	Mr	TEJAS RAVINDRA DARVHEKAR	45	8830074122	.	.	.	.	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
19	Mr	MITHILESH NARESH KHAPEKAR	42.83	8767390973	.	.	.	.	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
20	Mr	Nishant R. Tiwari		749914292	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
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22																															
23																															

Bridge course

Mrs. S. Y. Maske

Signature of Coordinator  
Coordinator

Department of Electronics  
SSEA's Science College,  
Congress Nagar, Nagpur-12

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

Shri Shivaji Education Society Amravati;

Month :- Aug./Sep.

Major Sub. :- Electronics Section:- D Batch :- E

Science College, Congress Nagar, Nagpur.

Name of Teacher :- Mrs. P. A. Bire

SC Theory/Practical

2024 - 2025

Sr. No.	Ro II	Students Full Name	Total upto last Month		Periods																Total						
			Deli	Att	Date / Contact No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Current Month	Progressive Month
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2	Mr	TANMAY MUKESH DONGARE	64		8080720128	P	.	P	P	P	P	P	P	.	P	P	P	P									
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4	Mr	YASH NITIN BAJANGHATE	62.5		7666249216	.	P	P	.	.	P	.	.	P	.						P	P	.				
5	Ku	GRISHAMA PRASHANT RANDIVE	61		8766628171	P	P	P	P	P	.	P	P	P	P	P					P	P	.				
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9	Ku	SAYMA TABASSUM FAIYAZ FAROOQUE	56.33		8668656030	P	P	P	P	P	P	P	P	P	P	P					.	P	P	P			
10	Ku	ATHARVA PRAMOD JONDHULKAR	52.83		7499802463	P	P	.	P	P	P	P	P	P	P	P	P				.	.	.	.	.		
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