

Sharnbasva University
B. Tech First year Scheme of Teaching and Examinations
Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic Year-2024-25)
First Semester, Physics Group for CSS [CSE, AI&DS, AI&ML, CSD] and CES [CIVIL]

S/N	Course	Course Code	Course Title	Teaching Dept.	Teaching Hours/Week			Examination				Credits
					L	T	P	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
1	BS	24MATS101	Engineering Mathematics-1 for CSS	Mathematics	3	1	0	3	50	50	100	4
		24MATC101	Engineering Mathematics-1 for CES									
2	BS	24PHYS102	Engineering Physics for CSS	Physics	3	1	0	3	50	50	100	4
		24PHYC102	Engineering Physics for CES									
3	ES	24ELE103	Basic Electrical Engineering	Electrical	2	1	0	3	50	50	100	3
4	ES	24EGD104	Engineering Graphics & Design	Mechanical	1	0	4	3	50	50	100	3
5	HSM	24ETW105	English for Technical Writing	English	2	0	2	3	50	50	100	3
6	BSL	24PHL106	Engineering Physics Lab	Physics	0	0	2	3	50	50	100	1
7	ESL	24ELL107	Basic Electrical Lab	Electrical	0	0	2	3	50	50	100	1
8	ESL	24DTL108	Design Thinking	Respective Depts	0	0	2	3	50	50	100	1
9	AU	24IDL109	IDEA Lab Workshop	Mechanical/ECE	2	0	4	3	100	---	100	0
10	PSI	24PRJ110	Project-1	Respective Depts	0	0	2	3	50	50	100	1
					13	03	18	30	550	450	1000	21

Computer Science Stream(CSS), Civil Engineering Stream(CES)

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First Semester, Chemistry Group for EES [ECE,EEE] and MES [MECH, EEG]

S/N	Course	Course Code	Course Title	Teaching Dept.	Teaching Hours/Week			Examination				Credits
					L	T	P	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
1	BS	24MATE101	Engineering Mathematics-1 for EES	Mathematics	3	1	0	3	50	50	100	4
		24MATM101	Engineering Mathematics-1 for MES									
2	BS	24CHEE102	Engineering Chemistry for EES	Chemistry	3	0	0	3	50	50	100	3
		24CHEM102	Engineering Chemistry for MES									
3	ES	24ELN103	Basic Electronics Engineering	Electronics	2	1	0	3	50	50	100	3
4	ES	24PPS104	Programming for Problem Solving	Computer Science	2	1	0	3	50	50	100	3
5	HSM	24UHV105	Universal Human Values-2	Respective Depts.	2	1	0	3	50	50	100	3
6	BSL	24CHL106	Engineering Chemistry Lab	Chemistry	0	0	2	3	50	50	100	1
7	ESL	24PPL107	Programming for Problem Solving Lab	Computer Science	0	0	2	3	50	50	100	1
8	ESL	24FAB108	Digital fabrication/Workshop/ Manufacturing practice.	Mechanical	0	0	4	3	50	50	100	2
9	AU	24SNY109	Sports and Yoga	Sports and yoga	0	0	2	3	50	50	100	0
		24NCC109	National Cadet Corps[NCC]	NCC								
		24NSS109	National Service Scheme[NSS]	NSS								
10	PSI	24PRJ110	Project-I	Respective Depts.	0	0	2	3	50	50	100	1
					12	04	12	30	500	500	1000	21

Electrical and Electronics Engineering Stream(EES), Mechanical Engineering Stream(MES)

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S/N	Course	Course Code	Course Title	Teaching Dept.	Teaching Hours/Week			Examination				Credits
					L	T	P	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
1	BS	24MATS201	Engineering Mathematics-2 for CSS	Mathematics	3	1	0	3	50	50	100	4
		24MATC201	Engineering Mathematics-2 for CES									
2	BS	24CHES202	Engineering Chemistry for CSS	Chemistry	3	0	0	3	50	50	100	3
		24CHEC202	Engineering Chemistry for CES									
3	ES	24ELN203	Basic Electronics Engineering	Electronics	2	1	0	3	50	50	100	3
4	ES	24PPS204	Programming for Problem Solving	Computer Science	2	1	0	3	50	50	100	3
5	HSM	24UHV205	Universal Human Values-2	Respective Depts.	2	1	0	3	50	50	100	3
6	BSL	24CHL206	Engineering Chemistry Lab	Chemistry	0	0	2	3	50	50	100	1
7	ESL	24PPL207	Programming for Problem Solving Lab	Computer Science	0	0	2	3	50	50	100	1
8	ESL	24FAB208	Digital fabrication/Workshop/Manufacturing practice.	Mechanical	0	0	4	3	50	50	100	2
9	AU	24SNY209	Sports and Yoga	Sports and yoga	0	0	2	3	100	--	100	0
		24NCC209	National Cadet Corps[NCC]	NCC								
		24NSS209	National Service Scheme[NSS]	NSS								
10	PSI	24PRJ210	Project-2	Respective Depts.	0	0	2	3	50	50	100	1
					12	04	12	30	550	450	1000	21

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					L	T	P	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
1	BS	24MATE201	Engineering Mathematics-2 for EES	Mathematics	3	1	0	3	50	50	100	4
		24MATM201	Engineering Mathematics-2 for MES									
2	BS	24PHYE202	Engineering Physics for EES	Physics	3	1	0	3	50	50	100	4
		24PHYM202	Engineering Physics for MES									
3	ES	24ELE203	Basic Electrical Engineering	Electrical	2	1	0	3	50	50	100	3
4	ES	24EGD204	Engineering Graphics & Design	Mechanical	1	0	4	3	50	50	100	3
5	HSM	24ETW205	English for Technical Writing	English	2	0	2	3	50	50	100	3
6	BSL	24PHL206	Engineering Physics Lab	Physics	0	0	2	3	50	50	100	1
7	ESL	24ELL207	Basic Electrical Lab	Electrical	0	0	2	3	50	50	100	1
8	ESL	24DTL208	Design Thinking	Respective Depts	0	0	2	3	50	50	100	1
9	AU	24IDL209	IDEA Lab Workshop	Mechanical/ECE	2	0	4	3	100	---	100	0
10	PSI	24PRJ210	Project-2	Respective Depts	0	0	2	3	50	50	100	1
					13	03	18	30	550	450	1000	21

Electrical and Electronics Engineering Stream(EES), Mechanical Engineering Stream(MES)