

B.Tech. SCHEME OF INSTRUCTIONS

1. INDUCTION PROGRAMME - COMMON TO ALL BRANCHES

(15 working days; 90 to 110 hours, Applicable from the academic year 2025-26 onwards)

Induction Program (mandatory)	3-Weeks' duration (Please refer Appendix-1 for guidelines)
Induction program for students to be offered right at the start of the first year	▪ Physical activity ▪ Creative Arts ▪ Universal Human Values ▪ Literary ▪ Proficiency Modules ▪ Lectures by Eminent People ▪ Visits to local Areas ▪ Familiarization to Dept./Branch ▪ and Innovations

B.Tech. (Chemical Engineering)
Semester I (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
CH 1101C	7-0-1-01R25	MA-BS	Linear Algebra and Calculus	3	0	0	3	3	40	60	100
CH 1102C	7-1-1-01R25	CY-BS	Physical Chemistry	3	0	0	3	3	40	60	100
CH 1103C	7-0-1-05R25	EN-HS	Effective Communication Skills	2	0	0	2	2	40	60	100
CH 1104C	7-0-1-07R25	CE-ES	Engineering Mechanics	3	0	0	3	3	40	60	100
CH 1105L	7-0-1-09R25	ME-ES	Engineering Graphics and Design	2	0	2	4	3	40	60	100
CH 1106C	7-1-1-02R25	CH-PC	Introduction to Chemical Engineering	3	0	0	3	3	40	60	100
CH 1107L	7-0-1-R25P1	ME-ES	Engineering Workshop Practice	0	0	3	3	1.5	40	60	100
CH 1108L	7-0-1-R25P3	EN-HS	Effective Communication Skills Lab	0	0	2	2	1	40	60	100
CH 1109C	7-0-1-R25M1	CH-HS	Universal Human Values	2	0	0	2	2	100	0	100
				18	0	7	25	21.5	420	480	900

B.Tech. (Chemical Engineering)
Semester II (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
CH 1201C	7-0-2-01R25	MA-BS	Differential Equations and Vector Calculus	3	0	0	3	3	40	60	100
CH 1202C	7-0-2-02R25	PY-BS	Engineering Physics	3	0	0	3	3	40	60	100
CH 1203C	7-0-1-04R25	CS-ES	Programming for Problem Solving	3	0	0	3	3	40	60	100
CH 1204C	7-0-1-06R25	EE-ES	Basic Electrical and Electronics Engineering	3	0	0	3	3	40	60	100
CH 1205C	7-1-2-01R25	CY-BS	Organic Chemistry	3	0	0	3	3	40	60	100
CH 1206C	7-1-2-02R25	CH-PC	Material Science	2	0	0	2	2	40	60	100
CH 1207L	7-0-1-R25P2	CS-ES	Programming for Problem Solving Lab	0	0	3	3	1.5	40	60	100
CH 1208L	7-0-1-R25P4	CS-ES	IT Workshop	0	0	2	2	1	100	0	100
				17	0	5	22	19.5	380	420	800

B. Tech (Civil Engineering)
Semester I (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
CE 2101C	7-0-1-01R25	MA-BS	Linear Algebra and Calculus	3	0	0	3	3	40	60	100
CE 2102C	7-0-1-03R25	CY-BS	Engineering Chemistry	3	0	0	3	3	40	60	100
CE 2103C	7-0-1-05R25	EN-HS	Effective Communication Skills	2	0	0	2	2	40	60	100
CE 2104C	7-0-1-07R25	CE-ES	Engineering Mechanics	3	0	0	3	3	40	60	100
CE 2105L	7-0-1-09R25	ME-ES	Engineering Graphics and Design	2	0	2	4	3	40	60	100
CE 2106C	7-2-1-01R25	CE-PC	Civil Engineering Materials and Construction	3	0	0	3	3	40	60	100
CE 2107L	7-0-1-R25P1	ME-ES	Engineering Workshop Practice	0	0	3	3	1.5	40	60	100
CE 2108L	7-0-1-R25P3	EN-HS	Effective Communication Skills Lab	0	0	2	2	1	40	60	100
CE 2109C	7-0-1-R25M1	CE-HS	Universal Human Values	2	0	0	2	2	100	0	100
				18	0	7	25	21.5	420	480	900

B. Tech. (Civil Engineering)
Semester II (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
CE 2201C	7-0-2-01R25	MA-BS	Differential Equations and Vector Calculus	3	0	0	3	3	40	60	100
CE 2202C	7-0-2-02R25	PY-BS	Engineering Physics	3	0	0	3	3	40	60	100
CE 2203C	7-0-1-04R25	CS-ES	Programming for Problem Solving	3	0	0	3	3	40	60	100
CE 2204C	7-0-1-06R25	EE-ES	Basic Electrical and Electronics Engineering	3	0	0	3	3	40	60	100
CE 2205C	7-2-2-01R25	CE-PC	Surveying	3	0	0	3	3	40	60	100
CE 2206L	7-0-1-R25P2	CS-ES	Programming for Problem Solving Lab	0	0	3	3	1.5	40	60	100
CE 2207L	7-0-1-R25P4	CS-ES	IT Workshop	0	0	2	2	1	100	0	100
CE 2208L	7-2-2-R25P1	CE-PC	Surveying Lab	0	0	3	3	1.5	40	60	100
				15	0	8	23	19	380	420	800

B. Tech (Electrical and Electronics Engineering)
Semester I (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
EE 3101C	7-0-1-01R25	MA-BS	Linear Algebra and Calculus	3	0	0	3	3	40	60	100
EE 3102C	7-0-1-02R25	PY-BS	Applied Physics	3	0	0	3	3	40	60	100
EE 3103C	7-0-1-04R25	CS-ES	Programming for Problem Solving	3	0	0	3	3	40	60	100
EE 3104C	7-0-1-06R25	EE-ES	Basic Electrical and Electronics Engineering	3	0	0	3	3	40	60	100
EE 3105C	7-0-1-08R25	ME-ES	Basic Mechanical Engineering	2	0	0	2	2	40	60	100
EE 3106L	7-0-1-R25P2	CS-ES	Programming for Problem Solving Lab	0	0	3	3	1.5	40	60	100
EE 3107L	7-0-1-R25P4	CS-ES	IT Workshop	0	0	2	2	1	100	0	100
EE 3108L	7-0-1-R25P5	EE-ES	Electrical Engineering Workshop	0	0	3	3	1.5	100	0	100
EE 3109C	7-0-1-R25M1	EE-HS	Universal Human Values	2	0	0	2	2	100	0	100
				16	0	8	24	20	540	360	900

B.Tech. (Electrical and Electronics Engineering)
Semester II (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
EE 3201C	7-0-2-01R25	MA-BS	Differential Equations and Vector Calculus	3	0	0	3	3	40	60	100
EE 3202C	7-0-1-03R25	CY-BS	Engineering Chemistry	3	0	0	3	3	40	60	100
EE 3203C	7-0-1-05R25	EN-HS	Effective Communication Skills	2	0	0	2	2	40	60	100
EE 3204C	7-0-2-03R25	CE-ES	Basic Civil Engineering	2	0	0	2	2	40	60	100
EE 3205L	7-0-2-04R25	ME-ES	Engineering Graphics and CAD	2	0	2	4	3	40	60	100
EE 3206C	7-3-2-01R25	EE-PC	Electrical Circuit Analysis	3	0	0	3	3	40	60	100
EE 3207L	7-0-1-R25P1	ME-ES	Engineering Workshop Practice	0	0	3	3	1.5	40	60	100
EE 3208L	7-0-1-R25P3	EN-HS	Effective Communication Skills Lab	0	0	2	2	1	40	60	100
EE 3209L	7-0-2-R25P1	EC-ES	Electronics Engineering Workshop	0	0	3	3	1.5	100	0	100
				15	0	10	25	20	420	480	900

B. Tech (Electronics and Communication Engineering)
Semester I (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
				L	T	P			CIE	SEE	Total
Department	University										
EC 4101C	7-0-1-01R25	MA-BS	Linear Algebra and Calculus	3	0	0	3	3	40	60	100
EC 4102C	7-0-1-02R25	PY-BS	Applied Physics	3	0	0	3	3	40	60	100
EC 4103C	7-0-1-04R25	CS-ES	Programming for Problem Solving	3	0	0	3	3	40	60	100
EC 4104C	7-0-1-10R25	EE-ES	Basic Electrical Engineering	3	0	0	3	3	40	60	100
EC 4105C	7-0-1-08R25	ME-ES	Basic Mechanical Engineering	2	0	0	2	2	40	60	100
EC 4106L	7-0-1-R25P2	CS-ES	Programming for Problem Solving Lab	0	0	3	3	1.5	40	60	100
EC 4107L	7-0-1-R25P4	CS-ES	IT Workshop	0	0	2	2	1	100	0	100
EC 4108L	7-0-1-R25P5	EE-ES	Electrical Engineering Workshop	0	0	3	3	1.5	100	0	100
EC 4109C	7-0-1-R25M1	EC-HS	Universal Human Values	2	0	0	2	2	100	0	100
				16	0	8	24	20	540	360	900

B.Tech. (Electronics and Communication Engineering)
Semester II (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
EC 4201C	7-0-2-01R25	MA-BS	Differential Equations and Vector Calculus	3	0	0	3	3	40	60	100
EC 4202C	7-0-1-03R25	CY-BS	Engineering Chemistry	3	0	0	3	3	40	60	100
EC 4203C	7-0-1-05R25	EN-HS	Effective Communication Skills	2	0	0	2	2	40	60	100
EC 4204C	7-0-2-03R25	CE-ES	Basic Civil Engineering	2	0	0	2	2	40	60	100
EC 4205L	7-0-2-04R25	ME-ES	Engineering Graphics and CAD	2	0	2	4	3	40	60	100
EC 4206C	7-4-2-01R25	EC-PC	Electronic Devices and Circuits	3	0	0	3	3	40	60	100
EC 4207L	7-0-1-R25P1	ME-ES	Engineering Workshop Practice	0	0	3	3	1.5	40	60	100
EC 4208L	7-0-1-R25P3	EN-HS	Effective Communication Skills Lab	0	0	2	2	1	40	60	100
EC 4209L	7-0-2-R25P1	EC-ES	Electronics Engineering Workshop	0	0	3	3	1.5	100	0	100
				15	0	10	25	20	420	480	900

B. Tech (Mechanical Engineering)
Semester I (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
ME 5101C	7-0-1-01R25	MA-BS	Linear Algebra and Calculus	3	0	0	3	3	40	60	100
ME 5102C	7-0-1-03R25	CY-BS	Engineering Chemistry	3	0	0	3	3	40	60	100
ME 5103C	7-0-1-05R25	EN-HS	Effective Communication Skills	2	0	0	2	2	40	60	100
ME 5104C	7-0-1-07R25	CE-ES	Engineering Mechanics	3	0	0	3	3	40	60	100
ME 5105L	7-0-1-09R25	ME-ES	Engineering Graphics and Design	2	0	2	4	3	40	60	100
ME 5106C	7-5-1-01R25	ME-PC	Material Science and Engineering	3	0	0	3	3	40	60	100
ME 5107L	7-0-1-R25P1	ME-ES	Engineering Workshop Practice	0	0	3	3	1.5	40	60	100
ME 5108L	7-0-1-R25P3	EN-HS	Effective Communication Skills Lab	0	0	2	2	1	40	60	100
ME 5109C	7-0-1-R25M1	ME-HS	Universal Human Values	2	0	0	2	2	100	0	100
				18	0	7	25	21.5	420	480	900

**B. Tech. (Mechanical Engineering)
Semester II (First Year)**

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
ME 5201C	7-0-2-01R25	MA-BS	Differential Equations and Vector Calculus	3	0	0	3	3	40	60	100
ME 5202C	7-0-2-02R25	PY-BS	Engineering Physics	3	0	0	3	3	40	60	100
ME 5203C	7-0-1-04R25	CS-ES	Programming for Problem Solving	3	0	0	3	3	40	60	100
ME 5204C	7-0-1-06R25	EE-ES	Basic Electrical and Electronics Engineering	3	0	0	3	3	40	60	100
ME 5205C	7-5-2-01R25	ME-PC	Advanced Engineering Graphics	2	0	2	4	3	40	60	100
ME 5206L	7-0-1-R25P2	CS-ES	Programming for Problem Solving Lab	0	0	3	3	1.5	40	60	100
ME 5207L	7-0-1-R25P4	CS-ES	IT Workshop	0	0	2	2	1	100	0	100
ME 5208L	7-0-2-R25P2	EE-ES	Basic Electrical Engineering Lab	0	0	2	2	1	40	60	100
ME 5209L	7-0-2-R25P3	EC-ES	Basic Electronics Engineering Lab	0	0	2	2	1	40	60	100
				14	0	11	25	19.5	420	480	900

B. Tech (Computer Science and Engineering)
Semester I (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
CS 6101C	7-0-1-01R25	MA-BS	Linear Algebra and Calculus	3	0	0	3	3	40	60	100
CS 6102C	7-0-1-02R25	PY-BS	Applied Physics	3	0	0	3	3	40	60	100
CS 6103C	7-0-1-04R25	CS-ES	Programming for Problem Solving	3	0	0	3	3	40	60	100
CS 6104C	7-0-1-06R25	EE-ES	Basic Electrical and Electronics Engineering	3	0	0	3	3	40	60	100
CS 6105C	7-0-1-08R25	ME-ES	Basic Mechanical Engineering	2	0	0	2	2	40	60	100
CS 6106L	7-0-1-R25P2	CS-ES	Programming for Problem Solving Lab	0	0	3	3	1.5	40	60	100
CS 6107L	7-0-1-R25P4	CS-ES	IT Workshop	0	0	2	2	1	100	0	100
CS 6108L	7-0-1-R25P6	EC-ES	Electronics Engineering Lab	0	0	3	3	1.5	40	60	100
CS 6109C	7-0-1-R25M1	CS-HS	Universal Human Values	2	0	0	2	2	100	0	100
				16	0	8	24	20	480	420	900

B. Tech. (Computer Science and Engineering)
Semester II (First Year)

Code		Category	Course Title	Hours/Week			Total	Credits	Marks		
Department	University			L	T	P			CIE	SEE	Total
CS 6201C	7-0-2-01R25	MA-BS	Differential Equations and Vector Calculus	3	0	0	3	3	40	60	100
CS 6202C	7-0-1-03R25	CY-BS	Engineering Chemistry	3	0	0	3	3	40	60	100
CS 6203C	7-0-1-05R25	EN-HS	Effective Communication Skills	2	0	0	2	2	40	60	100
CS 6204C	7-0-2-03R25	CE-ES	Basic Civil Engineering	2	0	0	2	2	40	60	100
CS 6205C	7-6-2-01R25	CS-PC	Data Structures	3	0	0	3	3	40	60	100
CS 6206L	7-0-1-09R25	ME-ES	Engineering Graphics and Design	2	0	2	4	3	40	60	100
CS 6207L	7-0-1-R25P1	ME-ES	Engineering Workshop Practice	0	0	3	3	1.5	40	60	100
CS 6208L	7-0-1-R25P3	EN-HS	Effective Communication Skills Lab	0	0	2	2	1	40	60	100
CS 6209L	7-6-2-R25P1	CS-PC	Data Structures Lab	0	0	3	3	1.5	40	60	100
				15	0	10	25	20	360	540	900