

Curriculum Structure _ F.Y. B. Tech._ Group-2: Mechanical & Civil Engineering

Semester-I														
COURSE TYPE	COURSE CODE	COURSE NAME	TEACHING SCHEME (Hours/Week)				CREDIT SCHEME				EXAMINATION /EVALUATION SCHEME AND MARKS			
			L	P	T	Total	L	P	T	Total	CIE	ESE	TW	Total
BSC	2601BSC101	Calculus & Linear Algebra (CLA)	3	-	1	4	3	-	1	4	40	60	25	125
BSC	2601BSC117 2601BSC118	Applied Physics (AP) / Applied Chemistry (AC)	2	2	-	4	2	1	-	3	40	60	25	125
ESC	2601ESC119 2601ESC120	Basic Electronics Engineering (BXE) / Fundamentals of Electrical Engineering (FEE)	2	2	-	4	2	1	-	3	40	60	25	125
ESC	2601ESC121 2601ESC122	Engineering Mechanics (EM) / Engineering Graphics (EG)	2	2	-	4	2	1	--	3	40	60	25	125
ESC	2601ESC123	Basic Python Programming (BPP)	2	2	-	4	2	1	--	3	40	60	25	125
AEC	2601AEC109	Professional Communication Skills	2	-	-	2	2	-	-	2		-	25	25
CC	2601CC110	Holistic Health, Values & Wellness	2	-	-	2	2	-	-	2		-	25	25
VSEC	2601VSL111 2601VSL112	Design Thinking Ideation (DTI) (Mini Project) / Manufacturing Practice Workshop (MPW)	-	4	-	4	-	2	--	2		-	25	25
Total			15	12	1	28	15	6	1	22	200	300	200	700

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Semester-II														
COURSE TYPE	COURSE CODE	COURSE NAME	TEACHING SCHEME (Hours/Week)				CREDIT SCHEME				EXAMINATION /EVALUATION SCHEME AND MARKS			
			L	P	T	Total	L	P	T	Total	CIE	ESE	TW	Total
BSC	2601BSC113	Differential Equations & Integral Calculus (DEIC)	3	-	1	4	3	--	1	4	40	60	25	125
BSC	2601BSC118 2601BSC117	Applied Chemistry (AC) / Applied Physics (AP)	2	2	-	4	2	1	-	3	40	60	25	125
ESC	2601ESC120 2601ESC119	Fundamentals of Electrical Engineering (FEE) / Basic Electronics Engineering (BXE)	2	2	-	4	2	1	-	3	40	60	25	125
ESC	2601ESC122 2601ESC121	Engineering Graphics (EG) / Engineering Mechanics (EM)	2	2	-	4	2	1	--	3	40	60	25	125
PCC	2601PCC124* 2601PCC125 [#]	Fundamentals of Civil Engineering (FCE) / Systems in Mechanical Engineering (SME)	2	2	-	4	2	1	--	3	40	60	25	125
IKS	2601IKS115	Indian Knowledge System	2	-	-	2	2	-	-	2		-	25	25
CC	2601CC116	Integrated Personality Development	2	-	-	2	2	-	-	2		-	25	25
VSEC	2601VSL112 2601VSL111	Manufacturing Practice Workshop (MPW) / Design Thinking Ideation (DTI) (Mini Project)	-	4	-	4	-	2	--	2		-	25	25
Total			15	12	1	28	15	6	1	22	200	300	200	700

- 2601PCC124* : This course is intended for Civil Engineering students.
- 2601PCC125[#] : This course is intended for Mechanical Engineering students.

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DEPARTMENT SPECIFIC EXIT COURSE (Group-2) (To award UG Certificate in Technology) First Year B.Tech. (Semester-II)												
COURSE TYPE	COURSE CODE	COURSE NAME	TEACHING SCHEME (Hours/Week)				CREDITS	THEORY EXAMINATION SCHEME		PRACTICAL EXAMINATION SCHEME		TOTAL
			L	PT	T	Total		CIE	ESE	TW	OR	
EXIT	2601EXT126	INTERNSHIP	-	16	-	16	8	-	-	50	50	8
Total			-	16	-	16	8					8
			Internship = Practical Training + Real work experience.									
Total			16 hrs per week for minimum 6 weeks (96 hrs)									

Note for Multiple Exits:

1. Students will have the flexibility to enter a programme in odd semesters and exit a programme after the successful completion of even / second semester as per their future career needs.
2. Students exiting the First Year B. Tech. after securing 44 credits will be awarded UG Certificate in the relevant Discipline provided they secure 8 credits in Internship offered during summer vacation in addition to 4 credits from skill-based courses earned during the first and second semester.