



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

(A State Government University)

B. Tech

CURRICULUM-2024- Semester I to VIII

Mechanical (Automobile) Engineering

Branch Code: - MU

(Group C)

Ambady Nagar, Sreekaryam

Thiruvananthapuram- 695016

FIRST SEMESTER (July-December)														
10 Days Compulsory Induction Program and UHV														
Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./Week
						L	T	P	R		CIA	ESE		
1	A	GYMAT101	BSC	GC	Mathematics for Physical Science-1	3	0	0	0	4.5	40	60	3	3
2	B S1/ S2	GZPHT121	BSC	GC	Physics for Physical Science	3	0	2	0	5.5	40	60	4	5
		GCCYT122			Chemistry for Physical Science									
3	C	GCEST103	ESC	GC	Engineering Mechanics	3	0	0	0	4.5	40	60	3	3
4	D	GCEST104	ESC	GC	Introduction to Mechanical Engineering & Civil Engineering (Part1: Mechanical Engineering)	2	0	0	0	3	20	30	2+2=4	4
					(Part 2: Civil Engineering)									
5	F	UCEST105	ESC	UC	Algorithmic Thinking with Python	3	0	2	0	5.5	40	60	4	5
6	L	GCESL106	ESC	GC	Engineering Workshop	0	0	2	0	1	50	50	1	2
7	I* S1/ S2	UCHWT127	HWP	UC	Health and wellness	1	0	1	0	0	50	0	1	2/3
		UCHUT128	HMC		Life Skills and Professional Communication									
8	S1/ S2	UCSEM129	SEC	UC	Skill Enhancement Course: Digital 101(30 Hours, NASSCOM)	MOOC				2			-	
Total									30/ 32			20	24/25	
Bridge Course (Mathematics or Introduction to Computer Science) *:										Total 15 Hrs.				

*Valuation for HMC courses will be done at college level, Question papers will be provided by the University.

*No Grade Points will be awarded for the MOOC course and I slot course.

- L-T-P-R: Lecture-Tutorial-Practical-Project
- SS (Self Study) Hours= 1.5L+0.5 T+0.5P+R
- CIA: Continuous Internal Assessment, ESE: End Semester Examination

Digital 101 (NASSCOM)		
Sl. No:	Technologies Covered	Hours
1	Artificial intelligence and Big Data Analytics (AI/BDA)	11
2	Internet of Things (IoT)	2.5
3	Cyber Security	2.5
4	Block Chain	2.5
5	Robotic Process Automation	1.5
6	Augmented and Virtual Reality (AR and VR)	2.5
7	Cloud Computing	2.5
8	3 D Printing and Modelling	2
9	Web, Mobile Dev and Marketing	2
10	Responsible AI	1
Total Hours		30

Note:

Physics, Chemistry, Health and Wellness & Life Skill and Professional Communication can be offered in both Semester 1 (S1) and Semester 2 (S2). Institutions are encouraged to guide approximately 50% of their branches to choose between Physics or Chemistry (Slot B) and Health and Wellness or Life Skill and Professional Communication (Slot I) in Semester 1.

SECOND SEMESTER (January-June)														
Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./Week
						L	T	P	R		CIA	ESE		
1	A	GYMAT201	BSC	GC	Mathematics for Physical Science-2	3	0	0	0	4.5	40	60	3	3
2	B S1/ S2	GZPHT121	BSC	GC	Physics for Physical Science	3	0	2	0	5.5	40	60	4	5
		GCCYT122			Chemistry for Physical Science									
3	C	GCEST203	ESC	GC	Engineering Graphics and Computer Aided Drawing	2	0	2	0	4	40	60	3	4
4	D	GZEST204	ESC	GC	Basic Electrical & Electronics Engineering (Part 1: Electrical Engineering)	2	0	0	0	3	20	30	2+2=4	4
					(Part 2: Electronics Engineering)									
5	E	PCMET205	PC	PC	Material Science and Engineering	3	1	0	0	5	40	60	4	4
6	F	UCEST206	ESC	UC	Engineering Entrepreneurship & IPR	3	0	0	0	4.5	60	40	3	3
7	I* S1/ S2	UCHWT127	HWP	UC	Health and wellness	1	0	1	0	0	50	0	1	2/3
		UCHUT128	HMC		Life Skills and Professional Communication	2	0	-	0	3	100	0		
8	L	GZESL208	ESC	GC	Basic Electrical and Electronics Engineering workshop	0	0	2	0	1	50	50	1	2
	S1/ S2	UCSEM129	SEC	UC	Skill Enhancement Course: Digital 101(30 Hours, NASSCOM)	MOOC							1	
Total									34			24	27/28	

*No Grade Points will be awarded for the MOOC course and I slot course.

THIRD SEMESTER (July-December)														
Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./Week
						L	T	P	R		CIA	ESE		
1	A	GYMAT301	BSC	GC	Mathematics for Physical Science-3	3	0	0	0	4.5	40	60	3	3
2	B	PCMUT302	PC	PC	Automotive Systems	3	1	0	0	5	40	60	4	4
3	C	PCMET303	PC	PC	Fluid Mechanics and Machinery	3	1	0	0	5	40	60	4	4
4	D	PBMET304	PC-PBL	PB	Manufacturing Processes	3	0	0	1	5.5	60	40	4	4
5	F	GNEST305	ESC	GC	Introduction to Artificial Intelligence and Data Science	3	1	0		5	40	60	4	4
6	G S3/S4	UCHUT346	HMC	UC	Economics for Engineers	2	0	0	0	3	50	50	2	2
		UCHUT347			Engineering Ethics and Sustainable Development									
7	L	PCMUL307	PCL	PC	Fluid Mechanics and Hydraulic Machines Lab	0	0	3	0	1.5	50	50	2	3
8	Q	PCMUL308	PCL	PC	Automotive systems Lab	0	0	3	0	1.5	50	50	2	3
9	R/M		VAC		REMEDIAL/MINOR/COURSE	3	1	0	0	5			4*	4*
Total									31/ 36			25/29*	27/31*	

FOURTH SEMESTER (January-June)														
Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./ Week
						L	T	P	R		CIA	ESE		
1	A	GCMAT401	BSC	GC	Mathematics for Physical Science-4	3	0	0	0	4.5	40	60	3	3
2	B	PCMUT402	PC	PC	Mechanics of Solids	3	1	0	0	5	40	60	4	4
3	C	PCMUT403	PC	PC	Thermodynamics and Thermal Systems	3	1	0	0	5	40	60	4	4
4	D	PBMUT404	PC-PBL	PB	Automotive Engines and Transmission	3	0	0	1	5.5	60	40	4	4
5	E	PEMUT41N	PE	PE	Program Elective-1	3	0	0	0	4.5	40	60	3	3
6	G S3/S4	UCHUT346	HMC	UC	Economics for Engineers	2	0	0	0	3	50	50	2	2
		UCHUT347			Engineering Ethics and Sustainable Development									
7	L	PCMUL407	PCL	PC	Material Testing Lab	0	0	3	0	1.5	50	50	2	3
8	Q	PCMEL408	PCL	PC	Manufacturing Technology Lab	0	0	3	0	1.5	50	50	2	3
9	R/M/ H		VAC		Remedial/Minor/Honours Course	3	1	0	0	5			4*	4*
Total									31/ 36		24/ 28*	26/ 30*		

Note: Economics for Engineers and Engineering Ethics and Sustainable Development shall be offered in both S3 and S4. Institutions can advise students belonging to about 50% of the number of branches in the Institution to opt for Economics for Engineers in S3 and Engineering Ethics & Sustainable Development in S4 and vice versa.

PROGRAM ELECTIVE I: PEMUT41N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
E	PEMUT411	Alternate fuels and Energy systems	3-0-0-0	3	3
	PEMUT412	Composite Materials and Ceramics	3-0-0-0		3
	PEMUT413	Vehicle Body Engineering	3-0-0-0		3
	PEMET416	Advanced Metal Joining Techniques	3-0-0-0		3
	PEMET418	Supply chain and Logistics Management	3-0-0-0		3
	PEMUT415	Computer Aided Design and Manufacturing	3-0-0-0		5/3

Note : Level 5 courses in the B. Tech curriculum carry a total of 5 credits, consisting of 3 credits for the Programme Elective and 2 additional credits. The additional 2 credits shall be awarded only if the student meets the eligibility conditions specified in the B. Tech. -2024 regulations. If those conditions are not fulfilled, the student will receive only 3 credits for the course.

FIFTH SEMESTER (July-December)														
Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./Week
						L	T	P	R		CIA	ESE		
1	A	PCMUT501	PC	PC	Automotive Electrical and Electronics systems	3	1	0	0	5	40	60	4	4
2	B	PCMUT502	PC	PC	Heat and Mass Transfer	3	1	0	0	5	40	60	4	4
3	C	PCMUT503	PC	PC	Electric Vehicles - Drives and Control	3	0	0	0	4.5	40	60	3	3
4	D	PBMUT504	PC-PBL	PB	Mechanics of Machinery	3	0	0	1	5.5	60	40	4	4
5	E	PEMUT52N	PE	PE	Program Elective-2	3	0	0	0	4.5	40	60	3	3
6	I*	UCHUM506	HMC	UC	Constitution Of India	-	-	-	-	2	-	-	1	-
7	L	PCMUL507	PCL	PC	Computer aided Design and Analysis lab	0	0	3	0	1.5	50	50	2	3
8	Q	PCMUL508	PCL	PC	Thermal and Internal Combustion engines lab	0	0	3	0	1.5	50	50	2	3
9	R/M/H		VAC		Remedial/Minor/Honours Course	3	1	0	0	5			4*	4*
	S ₅ / S ₆	Industrial Visit (Maximum 10 Days are permitted, Not Exceeding more than 5 Working Days) /Industrial Training												
Total										30/ 35			23/27*	24/28*

*No Grade Points will be awarded for the MOOC course and I slot course.

PROGRAM ELECTIVE 2: PEMUT52N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
E	PEMET521	Computational Fluid Dynamics	3-0-0-0	3	3
	PEMUT522	Automotive Pollution and Control	3-0-0-0		3
	PEMUT523	Tractors, Farm Equipments and Special Types of Vehicles	3-0-0-0		3
	PEMET524	Additive Manufacturing	3-0-0-0		3
	PEMUT526	Automotive Standards and Regulations	3-0-0-0		3
	PEMET525	Instrumentation and control systems	3-0-0-0		5/3

SIXTH SEMESTER (January-June)														
Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs/Week
						L	T	P	R		CIA	ESE		
1	A	PCMUT601	PC	PC	Design of Automotive Components	3	1	0	0	5	40	60	4	4
2	B	PCMUT602	PC	PC	Mechatronics	3	0	0	0	4.5	40	60	3	3
3	C	PEMUT63N	PE	PE	Program Elective-3	3	0	0	0	4.5	40	60	3	3
4	D	PBMUT604	PC-PBL	PB	Vehicle Dynamics	3	0	0	1	5.5	60	40	4	4
5	F	GCEST605	ESC	GC	Design Thinking and Product Development	2	0	0	0	3	40	60	2	2
6	O	OEMUT61N /IEMUT61N	OE/ILE	OE/IE	Open Elective/Industry Linked Elective-1	3	0	0	0	4.5	40	60	3	3
7	L	PCMUL607	PCL	PC	Electrical Machines and Mechatronics Lab	0	0	3	0	1.5	50	50	2	3
8	P	PCMUP608	PWS	PC	Mini Project: Socially Relevant Project	0	0	0	3	3	50	50	2	3
9	R/ M/ H		VAC		Remedial/Minor/Honours Course	3	1	0	0	5			4*	4*
	S5/ S6	Industrial Visit (Maximum 12 Days are permitted, Not Exceeding more than 6 Working Days) /Industrial Training												
Total										32/ 36		23/27*	25/29*	

Note: Open Electives are such courses which will be offered by other departments. Like CSE department students have to opt open electives from ECE/ME/EEE etc. departments.

PROGRAM ELECTIVE 3: PEMUT63N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
C	PEMUT631	Electric and Hybrid Vehicles	3-0-0-0	3	3
	PEMUT632	Automotive Embedded systems	3-0-0-0		3
	PEMUT633	Vehicle Performance and Testing	3-0-0-0		3
	PEMET636	Nondestructive Testing	3-0-0-0		3
	PEMET638	Industrial Safety Engineering	3-0-0-0		3
	PEMUT635	Vehicle Maintenance and Troubleshooting	3-0-0-0		5/3

OPEN ELECTIVE 1: OEMUT61N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
O	OEMUT611	Automated guided and Autonomous Vehicles	3-0-0-0	3	3
	OEMUT612	Modern Automotive Technologies	3-0-0-0		3
	OEMUT613	Tractors and Farm Equipments	3-0-0-0		3
	OEMUT614	Special Types of Vehicles	3-0-0-0		3
	OEMUT615	Alternate fuels and Energy systems	3-0-0-0		3

SEVENTH SEMESTER (July-December)														
Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs/Week
						L	T	P	R		CIA	ESE		
1	A	PEMUT74N / PEMUM74N	PE	PE	Program Elective-4 (Internship Students: Self Study/MOOC Approved by the University/Online Classes)	3	0	0	0	4.5	40	60	3	3
2	B	PEMUT75N/ PEMUM75N	PE	PE	Program Elective -5 (Internship Students: Self Study/MOOC Approved by the University/Online Classes)	3	0	0	0	4.5	40	60	3	3
3	O	OEMUT72N /IEMUT72N/ OEMUM72N	OE/ ILE	OE/I E	Open Elective/Industry Linked Elective -2 (Internship Students: Self Study/MOOC Approved by the University/Online Classes)	3	0	0	0	4.5	40	60	3	3
4	I*	UEHUT704 /UEHUM70N	HMC	UE	University Elective (Internship Students: Self Study/MOOC Approved by the University/Online Classes)	2	0	0	0	3	50	50	2	2
5	S	PCMUS705	PS	PC	Seminar	0	0	3	0	1.5	50	0	2	3
6	P	PCMUP706/ PCMUI706	PS	PC	Option 1: Major Project Option 2: Internship (4-6 Months)	0	0	0	12	12	100	0	4	8
7	R/H		VAC		Remedial/Honours Course	3	0	0	0	4.5			3*	3*
Total										26/ 31			17/20*	22/25*

*No Grade Points will be awarded for the I slot courses

*The students can take the internship option either in 7th or in 8th semester.

* Option 1: Work on a Project in the institute/department under the mentorship of faculty members.

Option 2: Full semester Internship in Industry/organization (7th or 8th semester)

Note: Open Electives are such courses which will be offered by other departments.

PROGRAM ELECTIVE 4: PEMUT74N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
A	PEMUT741	Hydrogen Engines and Fuel cell Vehicles	3-0-0-0	3	3
	PEMUT742	Heating Ventilation and Air Conditioning systems	3-0-0-0		3
	PEMUT743	Vehicle safety and security systems	3-0-0-0		3
	PEMUT744	Modern Automotive Technologies	3-0-0-0		3
	PEMUT746	Microprocessors and Controllers in automotives	3-0-0-0		3
	PEMUT745	Finite Element Analysis	3-0-0-0		5/3

PROGRAM ELECTIVE 5: PEMUT75N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
B	PEMUT751	Data analytics	3-0-0-0	3	3
	PEMUT752	Advanced IC Engines and Combustion	3-0-0-0		3
	PEMUT753	Automotive Aerodynamics	3-0-0-0		3
	PEMUT754	Tribology and Lubrication	3-0-0-0		3
	PEMET757	Flexible Manufacturing system	3-0-0-0		3
	PEMUT755	Artificial Intelligence and Machine Learning	3-0-0-0		5/3

OPEN ELECTIVE 2: OEMET72N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
O	OEMUT721	Electric and Hybrid Vehicles	3-0-0-0	3	3
	OEMUT722	Automotive Ergonomics and Safety	3-0-0-0		3
	OEMUT723	Automotive Navigation and control	3-0-0-0		3
	OEMUT724	Vehicle Performance and Testing	3-0-0-0		3
	OEMUT725	Embedded systems in Automobiles	3-0-0-0		3

Slot I: HMC Elective

1	Project Management: Planning, Execution, Evaluation and Control
2	Proficiency course in French. (MOOC) (B1 level)
3	Proficiency Course in German (B1 Level). (MOOC)
4	Proficiency Course in Spanish (B1 Level) (MOOC)
5	Introduction to Japanese Language and Culture (N5 level). (MOOC)

EIGHT SEMESTER (January-June)

Sl. No:	Slot	Course Code	Course Type	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs/Week
						L	T	P	R		CIA	ESE		
1	A	PEAOT86N / PEAOM86N	PE	PE	Program Elective -6 (Internship Students: Self Study/MOOC Approved by the University/Online Classes)	3	0	0	0	4.5	40	60	3	3
2	O	OEAOT83N /IEAOT83N /OEAOM83 N	OE/ILE	OE/IE	Open Elective/Industry Linked Elective -3 (Internship Students: Self Study/MOOC Approved by the University/Online Classes)	3	0	0	0	4.5	40	60	3	3
3	I*	UEHUT803 / UEHUM803	HMC	UC	Organizational Behavior and Business Communication (Internship Students: Self Study/MOOC Approved by the University/Online Classes)	2	0	0	0	3	50	50	1	2
4	P	PCAOP806/ PCAOI806/ PCAOJ806	PS	PC	Option 1: Major Project Option 2: Internship (4-6 Months) Option 3: Major Project Phase -II (For the students who have not opted for internship in S7/S8)	0	0	0	12	12	100	0	4	8
5	R/H		VAC		Project: Honours Course	0	0	0	4	4			4*	4
Total										24/ 28			11/15*	16/20

*No Grade Points will be awarded for the I slot courses

* Option 2: Full semester Internship in Industry/organization (7th or 8th semester)

PROGRAM ELECTIVE 6: PEMUT86N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
A	PEMUT861	Automotive Navigation and Control	3-0-0-0	3	3
	PEMUT862	Operational research and Industrial management	3-0-0-0		3
	PEMUT863	Automotive Noise Vibration and Harshness	3-0-0-0		3
	PEMUT864	Renewable Energy Sources	3-0-0-0		3
	PEMUT866	Vehicle Transport Management	3-0-0-0		3
	PEMUT865	Advanced Driver Assistance Systems and Autonomous Vehicles	3-0-0-0		5/3

OPEN ELECTIVE 3: OEMUT83N

SLOT	COURSE CODE	COURSES	L-T-P-R	HOURS	CREDIT
O	OEMUT 831	Advanced Tribology and Nano lubricants in Automotives	3-0-0-0	3	3
	OEMUT 832	Hydrogen and Fuel cell vehicles	3-0-0-0		3
	OEMUT 833	Advanced Manufacturing Techniques	3-0-0-0		3
	OEMUT 834	Automotive Mechatronics	3-0-0-0		3
	OEMUT 835	Vehicle transport and Fleet Management	3-0-0-0		3

HMC Courses

Sl. No:	Semester	Course Area	Credits
1	S1/S2	Life Skills and Professional Communication	1
2	S3	Economics for Engineers	2
3	/S4	Engineering Ethics and Sustainable Development	2
4	S5	Constitution Of India. (MOOC)	1
5	S7	Elective (Project Management/Foreign Languages)	2
6	S8	Organizational Behavior and Business Communication	1
Total Credits			9

BSC Courses

Sl. No:	Semester	Course Area	Credits
1	S1	Mathematics for Physical Science-1	3
2	S1/S2	Physics for Physical Science	4
3		Chemistry for Physical Science	4
4	S2	Mathematics for Physical Science-2	3
5	S3	Mathematics for Physical Science-3	3
6	S4	Mathematics for Physical Science-4	3
Total Credits			20

ESC Courses			
Sl. No:	Semester	Course Area	Credits
1	S1	Engineering Mechanics	3
2		Introduction to Mechanical Engineering/ Civil Engineering	4
3		Algorithmic Thinking with Python	4
4		Engineering Workshop	1
5	S2	Engineering Graphics and Computer Aided Drawing	3
6		Basic Electrical and Electronics Engineering	4
7		Engineering Entrepreneurship and IPR	3
8		Basic Electrical and Electronics Engineering Workshop	1
9	S3	Introduction to Artificial Intelligence and Data Science	4
10	S6	Design Thinking and Creativity	2
Total Credits			29

Programme Core Courses (PC)			
Sl. No:	Semester	Course Area	Credits
1	S2	Material Science and Engineering	4
2	S3	Automotive Systems	4
3		Fluid Mechanics and Machinery	4
4		Fluid Mechanics and Hydraulic Machines Lab	2
5		Automotive systems Lab	2
6	S4	Mechanics of Solids	4
7		Thermodynamics and Thermal Systems	4
8		Material Testing Lab	2
9		Manufacturing Technology Lab	2
10	S5	Automotive Electrical and Electronics systems	4
11		Heat and Mass Transfer	4
12		Electric Vehicles - Drives and Control	3
13		Computer aided Design and Analysis lab	2
14		Thermal and Internal Combustion engines lab	2
15	S6	Design of Automotive Components	4
16		Mechatronics	3
17		Electrical Machines and Mechatronics Lab	2
Total Credits (Theory -10, Lab-7)			52

Programme Core-Project Based Learning (PBL)			
Sl. No:	Semester	Course Area	Credits
1	S3	Core PBL-1	4
2	S4	Core PBL-2	4
3	S5	Core PBL-3	4
4	S6	Core PBL-4	4
Total Credits			16

Programme Elective Courses (PE)			
Sl. No:	Semester	Course Type	Credits
1	S4	PE-1	3
2	S5	PE-2	3
3	S6	PE-3	3
4	S7	PE-4	3
5		PE-5	3
6	S8	PE-6	3
Total Credits			18

Open Elective Courses/Industry Elective(OE/IEL)			
Sl. No:	Semester	Course Type	Credits
1	S6	OE/ILE-1	3
2	S7	OE/ILE-2	3
3	S8	OE/ILE-3	3
Total Credits			9

Project/ Internship and Seminar			
Sl. No:	Semester	Course Type	Credits
1	S6	Mini Project	2
2	S7	Seminar	2
3		Major Project/Internship	4
4	S8	Major Project/Internship/Research Project	4
Total Credits			12

Activity Points				
Sl. No.	Group	Courses	Credits	Minimum Credit Requirements
1	I	NSS, NCC, NSO (National Sports Organization)	1 (40 Points)	3 Credits (One credit from each Group)
2		Arts/Sports/Games		
3		Union/Club Activities		
4	II	English Proficiency Certification (TOFEL, IELTS, BEC etc.)	1 (40 Points)	
5		Aptitude Proficiency Certification (GRE, CAT, GMAT etc.)/ Valid Gate Score.		
6		Short Term Internship (Minimum 2 weeks), Clinical Exposure/Training (Minimum 2 weeks), Conferences/Paper Presentation/ Workshop Activities/ Professional Body Activities, Participation in University level/State Level/ National Level Hackathons		
7	III	Journal Publication, Patents, Start-Up, Innovation, Winners of National/ International Level Hackathons	1 (40 Points)	
8		Skilling Certificates (Approved by the University)		

- *Students are required to acquire a minimum of 120 activity points, with at least 40 points per group, to fulfill the curriculum requirement of 3 activity credits.*
- *For B. Tech Lateral Entry students, 30 points per group are required. A minimum of 90 activity points must be acquired to obtain the 3 activity credits mandated by the curriculum.*

Course classifications of the B. Tech Programmes and Overall Credit Structure			
Sl. No	Category	Code	Credits
1	Humanities and Social Sciences including Management Courses	HMC	9
2	Basic Science Courses	BSC	20
3	Engineering Science Courses	ESC	29
4	Programme (Professional) Core Courses	PCC	52
5	Programme (Professional) Core Courses-Project Based Learning	PBL	16
6	Programme Elective Courses	PEC	18
7	Open Elective Courses/Industry Linked Elective	OEC/ILE	9
8	Mini Project, Project Work/Internship and Seminar	PWS	12
9	Health and Wellness	HWP	1
10	Skill Enhancement Courses (Digital 101)	SEC	1
11	Mandatory Student Activities	MSA	3
Total Credits			170