Indian Institute of Technology Palakkad Curriculum 2017 Batch Semesters 1 and 2 Common to all branches

Semester One

Sl No	Course Code	Course Title	Course Credit	Course Category			
1	CY1010	Theoretical and Inorganic Chemistry	3	BST			
2	ID1010	Ecology and Environment	2	IDC			
3	ID1030	Introduction to Engineering	1	IDC			
4	ID1050	Concepts in Engineering Design	2	IDC			
5	GN1000	Life Skills*	0	CWC**			
6	MA1010	Calculus	4	BST			
7	ME1130	Engineering Drawing	3	BEP			
8	ME1150	Workshop Practice I	2	BEP			
9	PH1010	Physics I	3	BST			
10	PH1130	Physics Laboratory	2	BSP			
	Total Credits 22						

Semester Two

Sl No	Course Code	Course Title	Course Credit	Course Category		
1	CE1020	Engineering Mechanics	4	BET		
2	CS1020	Introduction to Programming	4	BET		
3	CY1020	Thermodynamics, Kinetics and Organic Reactions	3	BST		
4	CY1140	Chemistry Laboratory	2	BSP		
5	GN1002	National Service Scheme	0	CWC**		
6	MA1020	Vector Calculus and Linear Algebra	4	BST		
7	ME1020	Engineering Thermodynamics	3	BET		
8	ME1160	Workshop Practice II	2	BEP		
9	PH1020	Physics II	3	BST		
	Total Credits 25					

Category Expansion:

BEP: Basic engineering practice, BET: Basic engineering theory, BSP: Basic science practice, BST: Basic science theory, CWC: Course without credit, IDC: Inter disciplinary course.

^{*}Introduced through orientation programme. **Carries no credit but is mandatory for the award of the degree

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Electrical Engineering	
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Course Structure 2015 Batch

Sl No	Stream	Nature 2013 B	Code	Semester	Credits CGPA	Credits Transferrable**		Credits Sub-Total
A.	Humanities	and Basic Sciences			ranches			
1	HS	Elective: Theory	HSS	3 - 4	06		10	
1	113	Pass / Fail	HPF	2 & 7	04		10	
2	CY	Core: Theory	SCY	1 - 2	06		08	
		Core: Lab	SCY	2	02			
3	LS	Core: Theory	SLS	3	02		02	42
4	MA	Core: Theory	SMA	1 - 2	08		14	
7	1417 \$	Elective: Theory	MAE	3 - 4	06		17	
5	PH	Core: Theory	SPH	1 - 2	06		08	
		Core: Lab	SPH	1	02			
B.]		neering: Common to						
1	CE, CSE,	Basic: Theory	BET	1 – 3	19		26	26
•	& ME	Basic: Skill	BES	1 - 3	07		20	20
2	EE	Basic: Theory	BET	1 – 3	16		23	23
		Basic: Skill	BES	1 - 3	07			
C. .	Professiona	l Major: Branch Sp		1 2 =	- C	1		ı
		Core: Theory	PMT	3 - 7	56		66	90 /105*
	G.F.	Core: Lab	PML	3 - 7	10			
1	CE	Elective: Theory	PME	5 - 8	12 / 27	06	12 / 27	
		Internship	PMP		02		02	
		Project	PMP	7 - 8	10		10	
		Core: Theory	PMT	3 - 7	37		55	
_	CCE	Core: Lab	PML	3 - 7	18			06/404*
2	CSE	Elective: Theory	PME	5 - 8	19 / 34	06	19 / 34	86 / 101*
		Internship	PMP		02		02	
		Project	PMP	7 - 8	10		10	
		Core: Theory	PMT	3 - 7	51		69	
2	rr -	Core: Lab	PML	3 - 7	18		00 / 24	00 / 105*
3	EE	Elective: Theory	PME	5 - 8	09 / 24*	06	09 / 24	90 / 105*
		Internship	PMP	7. 0	02		02	
		Project	PMP	7 - 8	10		10	
		Core: Theory	PMT	3 - 7	61		69	
4	ME	Core: Lab	PML	3 - 7	08		00 / 24	00 / 105*
4	ME	Elective: Theory	PME	5 - 8	09 / 24	06	09 / 24	90 / 105*
		Internship	PMP	7 0	02		02	
D	Cananal Ca	Project	PMP	7 - 8	10		10	
		tegory: Common to			00	1.02	1.00	00
1	CSE	Elective: Theory	GCE	5 - 8	09	03	09	09
3	CSE EE	Elective: Theory Elective: Theory	GCE	5 - 8	12	03	12	12 12
4		Elective: Theory	GCE GCE	5 - 8 5 - 8	09	03		09
_	ME Others	Elective. Theory	GCE	3-8	UY	03	09	U9
L.	Others CE CSE	Co Curricular				1		
1	CE, CSE, EE & ME		NSS	2	00		00	00
	LL & ME	activity		1			I	

Minimum Required Credits (A+B+C+D+E): B. Tech / B. Tech (Honours)							
Branch	Total Credits	Branch	Total Credits				
CE	42 + 26 + 90 / 105 + 09 + 00 = 167 / 182	EE	42 + 23 + 90 / 105 + 12 + 00 = 167 / 182				
CSE	42 + 26 + 86 / 105 + 12 + 00 = 166 / 181	ME	42 + 26 + 90 / 105 + 09 + 00 = 167 / 182				

Not included for CGPA calculation. *15 credits for honours programme. **Option of credit transfer for online courses and courses at other Institutes.

Semester wise courses-credits distribution 2015 Batch

SI Street Code Semester: No of courses (Credits) Sub-Total Total							T-4-1					
Sl	Stream	Code	Semesi	er: No	or cours				7	0	Sub-Total	Total
No			1	2	3	4		6	7	8	Cours. (Crd.)	Cours. (Crd.)
A.	Humaniti		Basic S	ciences			all bra	nches	ı		T	
1	HS	HSS			1(3)	1(3)					4 (10)	
1	110	HPF		1(2)					1(2)		1 (10)	
2	CY	SCY	1(3)	1(3)							3 (8)	
		SCY		1(2)							` '	15 (42)
3	LS	SLS			1(2)						1 (2)	13 (42)
4	MA	SMA	1(4)	1(4)							4 (14)	
	1017 1	MAE			1(3)	1(3)					7 (17)	
5	PH	SPH	1(3)	1(3)							3 (8)	
		SPH	1(2)								3 (8)	
B.	Basic Eng	ineerin	g: Con	imon to	all bra	anches						
1	CE, CSE,	BET	2 (7)	3 (9)	1 (3)						6 (19)	9 (26)
1	ME	BES	2 (5)	1(2)							3 (7)	9 (26)
2	EE	BET	2(7)	3 (9)							5 (16)	Q (23)
2	EE	BES	2 (5)	1(2)							3 (7)	8 (23)
C.	Profession	al Maj	or: Bra	anch Sp	ecific							
		PMT			3(10)	4(16)	4(15)	3(11)	1(4)		15 (56)	
1	G.E.	PML			1(2)	1(2)	1(2)	1(2)	1(2)		5 (10)	$24 + 05^{\$}$
1	CE	PME					2(6)	2(6)	3(9)	2(6)	4+5 (12+15*)	(90 + 15*)
		PMP						1(2)	1(3)	1(7)	3 (12)**	(5 5 16)
		PMT			2(7)	3(11)	3(10)	2(6)	1(3)		11 (37)	
		PML			2(4)	2(4)	2(4)	2(4)	1(2)		9 (18)	$25 + 04^{\$}$
2	CSE	PME					2(8)	2(8)	4(15)	1(3)	5+4 ⁸ (19+15*)	(86 + 15)
		PMP						1(2)	1(3)	1(7)	3 (12)**	(00 + 13)
		PMT			3(12)	4(15)	4(16)	2(8)			13 (51)	
		PML			1(2)	2(4)	2(4)	2(4)	2(4)		9 (18)	$25 + 05^{\$}$
3	EE	PME									3+5 (9+15*)	
							1(3)	2(6)	4(12)	1(3)		(90 + 15*)
		PMP			2(12)	4(16)	 5(10)	1(2)	1(3)	1(7)	3 (12)**	
		PMT			3(12)	4(16)	5(19)	3(10)	1(4)		16 (61)	S
4	ME	PML				1(2)	1(2)	1(2)	1(2)	1(2)	4 (8)	$23 + 05^{\circ}$
		PME					1(3)	2(6)	4(12)	1(3)	3+5* (9+15*)	(90 + 15*)
		PMP						1(2)	1(3)	1(7)	3 (12)**	
D.	General C		y: Com	mon to	all bra	anches						
1	CE	GCE					1(3)	1(3)	1(3)		3 (9)	3 (09)
2	CSE	GCE					1(3)	2(6)		1(3)	4 (12)	4 (12)
3	EE	GCE						2(6)	1(3)	1(3)	4 (12)	4 (12)
4	ME	GCE					1(3)	1(3)		1(3)	3 (9)	3 (09)
E.	Others											
1	CE, CSE,	NSS		1(0)								00
1	EE, ME	1100		1(0)								00

Minim	Minimum Required Credits (A+B+C+D+E): B. Tech / B. Tech (Honours)							
Branch	Total (B.Tech / B.Tech Honours)			Total (B.Tech / B.Tech Honours)				
	Credits	Courses#	Branch		Courses#			
CE	42+26+90/105+09+00 = 167/182	(51/56)	EE	42+23+90/105+12+00 = 167/182	(52/57)			
CSE	42+26+90/105+12+00 = 167/182	(53/58)	ME	42+26+90/105+09+00 = 167/182	(50/55)			

Additional courses for honours programme. *15 additional credits for honours programme. **Internship & Project. *Does not include internship and project.

Civil Engineering 2015 Batch

	Course		Course	Course
	Code	Course Title	Credit	Category
Ser	nester 1		•	
1	CS1100	Computational Engineering	4	BET
2	CY1010	Chemistry I	3	SCY
3	ID1100	Concepts in Engineering Design	3	BET
4	MA1010	Mathematics I	4	SMA
5	ME1120	Engineering Drawing	3	BES
6	PH1010	Physics 1	3	SPH
7	PH1030	Physics Laboratory	2	SPH
8	WS1010	Workshop I	2	BES
		Total Credits	24	
Ser	nester 2			
1	CY1020	Chemistry II	3	SCY
2	CY1030	Chemistry Laboratory	2	SCY
3	ID1200	Ecology and Environment	2	BET
4	AM1100	Engineering Mechanics	4	BET
5	GN1100	Life Skills*	2	HPF
6	MA1020	Mathematics II	4	SMA
7	NS1030	National Service Scheme**	0	NSS
8	PH1020	Physics II	3	SPH
9	ME1100	Thermodynamics	3	BET
10	WS1020	Workshop II	2	BES
		Total Credits	25	
Ser	nester 3			
1	EE1100	Basic Electrical Engineering	3	BET
2	CE2050	Building Drawing	2	PML
3	CE2330	Civil Engineering Materials and Construction	4	PMT
4	CE1020	Functional Design of Buildings	2	PMT
5	AM2200	Strength of Materials	4	PMT
6	BT1010	Life Sciences	2	SLS
7	HSE1	Humanities Elective 1	3	HSS
8	MAE1	Mathematics Elective 1	3	SMA
		Total Credits	23	
Ser	nester 4			
1	CE2020	Structural Engineering	4	PMT
2	CE2040	Hydraulic Engineering	4	PMT
3	CE2060	Geology and Soil Mechanics	4	PMT
4	CE2080	Surveying Theory	4	PMT
5	CE2100	Surveying Practical	2	PML
6	HSE2	Humanities Elective 2	3	HSS
7	MAE2	Mathematics Elective 2	3	SMA
		Total Credits	24	

^{*}Pass / Fail course. Not considered for GPA / CGPA calculations. **Zero credits, but attendance is mandatory.

Civil Engineering 2015 Batch

Sl.	Course	Course Title	Course	Course
No	Code	Course Title	Credit	Category
Sen	nester 5		_	
1	CE3010	Transportation Engineering I	3	PMT
2	CE3030	Water Resources Engineering	4	PMT
3	CE3060	Basic Reinforced Concrete Design	4	PMT
4	CE3350	Geotechnical Engineering	4	PMT
5	CE3410	Construction Materials Laboratory	2	PML
6	PME1	Professional Major Elective 1	3	PME
7	PME2	Professional Major Elective 2	3	PME
8	GCE1	General Category Elective 1	3	GCE
	Minimur	n Credits: B.Tech / B.Tech (Honours)	23 / 26	
Sen	nester 6			
1	CE3015	Transportation Engineering II	3	PMT
2	CE3025	Environmental Engineering	4	PMT
3	CE3035	Basic Structural Steel Design	4	PMT
4	CE3115	Hydraulic and Environmental Engineering Laboratory	2	PML
5	CE3125	Internship	2	PMP
6	PME3	Professional Major Elective 3	3	PME
7	PME4	Professional Major Elective 4	3	PME
8	GCE2	General Category Elective 2	3	GCE
	Minimur	n Credits: B.Tech / B.Tech (Honours)	21 / 24	!
Sen	nester 7			
1	CE4010	Estimation & Construction Management	4	PMT
2	CE4030	Structural Engineering Laboratory	2	PML
3	CE4050	Project Phase I	3	PMP
4	HS3050	Professional Ethics	2	HPF
5	PME5	Professional Major Elective 5	3	PME
6	PME6	Professional Major Elective 6	3	PME
7	PME7	Professional Major Elective 7	3	PME
8	GCE3	General Category Elective 3	3	GCE
	Minimur	n Credits: B.Tech / B.Tech (Honours)	17 / 23	
Sen	nester 8			
1	CE4060	Project Phase II	7	PMP
2	PME8	Professional Major Elective 8	3	PME
3	PME9	Professional Major Elective 9	3	PME
	Minimur	n Credits: B.Tech / B.Tech (Honours)	10 / 13	

Computer Science and Engineering 2015 Batch

	Course	Course Title	Course	Course
No	Code	Course Title	Credit	Category
Ser	mester 1			
1	CS1100	Computational Engineering	4	BET
2	CY1010	Chemistry I	3	SCY
3	ID1100	Concepts in Engineering Design	3	BET
4	MA1010	Mathematics I	4	SMA
5	ME1120	Engineering Drawing	3	BES
6	PH1010	Physics 1	3	SPH
7	PH1030	Physics Laboratory	2	SPH
8	WS1010	Workshop I	2	BES
		Total Credits	24	
Ser	mester 2			
1	CY1020	Chemistry II	3	SCY
2	CY1030	Chemistry Laboratory	2	SCY
3	ID1200	Ecology and Environment	2	BET
4	AM1100	Engineering Mechanics	4	BET
5	GN1100	Life Skills*	2	HPF
6	MA1020	Mathematics II	4	SMA
7	NS1030	National Service Scheme**	0	NSS
8	PH1020	Physics II	3	SPH
9	ME1100	Thermodynamics	3	BET
10	WS1020	Workshop II	2	BES
		Total Credits	25	
Ser	mester 3			
1	EE1100	Basic Electrical Engineering	3	BET
2	CS2110	Computer Programming Laboratory	2	PML
3	EE2702	Digital Circuits Laboratory	2	PML
4	EE2001	Digital Systems	4	PMT
5	CS2100	Discrete Mathematics for Computer Science	3	PMT
6	BT1010	Life Sciences	2	SLS
7	HSE1	Humanities Elective 1	3	HSS
8	MAE1	Mathematics Elective 1	3	SMA
		Total Credits	22	
Ser	mester 4			
1	CS2600	Computer Organization	3	PMT
2	CS2610	Computer Organization Laboratory	2	PML
3	CS2800	Data Structures and Algorithms	4	PMT
4	CS2810	Data Structures and Algorithms Lab	2	PML
5	CS2200	Language Machines and Computations	4	PMT
6	HSE2	Humanities Elective 2	3	HSS
7	MAE2	Mathematics Elective 2	3	SMA
		Total Credits	21	

 $[\]overline{*Pass \ / \ Fail \ course. \ Not \ considered \ for \ GPA \ / \ CGPA \ calculations. \ **Zero \ credits, \ but \ attendance \ is \ mandatory.}$

Computer Science and Engineering 2015 Batch

Sl.	Course	Course Title	Course	Course
No	Code	Course Title	Credit	Category
Sen	nester 5			
1	CS3100	Paradigms of Programming	4	PMT
2	CS3300	Language Translators	3	PMT
3	CS3310	Language Translators Laboratory	2	PML
4	CS3500	Operating Systems	3	PMT
5	CS3510	Operating Systems Laboratory	2	PML
6	PME1	Professional Major Elective 1	4	PME
7	PME2	Professional Major Elective 2	4	PME
8	GCE1	General Category Elective 1	3	GCE
	Minimu	m Credits: B.Tech / B.Tech Honours	21 / 25	
Sen	nester 6			
1	CS3200	Computer Networks	3	PMT
2	CS3210	Computer Networks Lab	2	PML
3	CS3700	Introduction to Database Systems	3	PMT
4	CS3710	Database Systems Lab	2	PML
5	CS3660	Internship	2	PMP
6	PME3	Professional Major Elective 3	4	PME
7	PME4	Professional Major Elective 4	4	PME
8	GCE2	General Category Elective 2	3	GCE
9	GCE3	General Category Elective 3	3	GCE
	Minimu	m Credits: B.Tech / B.Tech Honours	22 / 26	ı
Sen	nester 7			
1	CS3400	Principles of Software Engineering	3	PMT
2	CS3410	Principles of Software Engineering Lab	2	PML
3	CS4800	Project Phase I	3	PMP
4	HS3050	Professional Ethics	2	HPF
5	PME5	Professional Major Elective 5	4	PME
6	PME6	Professional Major Elective 6	4	PME
7	PME7	Professional Major Elective 7	4	PME
8	PME8	Professional Major Elective 8	3	PME
	Minimur	n Credits: B.Tech / B.Tech (Honours)	21 / 25	
Sen	nester 8			
1	CS4810	Project Phase II	7	PMP
2	PME9	Professional Major Elective 9	3	PME
3	GCE4	General Category Elective 4	3	GCE
	Minimur	n Credits: B.Tech / B.Tech (Honours)	10/13	

Electrical Engineering 2015 Batch

Sl.	Course	Course Title	Course	Course
No	Code	Course Title	Credit	Category
Sen	nester 1			
1	CS1100	Computational Engineering	4	BET
2	CY1010	Chemistry I	3	SCY
3	ID1100	Concepts in Engineering Design	3	BET
	MA1010	Mathematics I	4	SMA
	ME1120	Engineering Drawing	3	BES
	PH1010	Physics 1	3	SPH
	PH1030	Physics Laboratory	2	SPH
8	WS1010	Workshop I	2	BES
		Total Credits	24	
Sen	nester 2			
1	CY1020	Chemistry II	3	SCY
2	CY1030	Chemistry Laboratory	2	SCY
3	ID1200	Ecology and Environment	2	BET
4	AM1100	Engineering Mechanics	4	BET
5	GN1100	Life Skills*	2	HPF
6	MA1020	Mathematics II	4	SMA
7	NS1030	National Service Scheme**	0	NSS
8	PH1020	Physics II	3	SPH
9	ME1100	Thermodynamics	3	BET
10	WS1020	Workshop II	2	BES
		Total Credits	25	
Sen	nester 3			
1	EE2702	Digital Circuits Laboratory	2	PML
2	EE2001	Digital Systems	4	PMT
3	EE1001	Electrical and Magnetic Circuits	4	PMT
4	EE1101	Signals and Systems	4	PMT
5	BT1010	Life Sciences	2	SLS
6	HSE1	Humanities Elective 1	3	HSS
7	MAE1	Mathematics Elective 1	3	SMA
		Total Credits	22	
Sen	nester 4			
1	CS2600	Computer Organization	3	PMT
2	CS2610	Computer Organization Lab	2	PML
3	EE2005	Electrical Machines	4	PMT
4	EE2006	Electromagnetic Fields	4	PMT
5	EE3002	Analog Circuits Theory	4	PMT
6	EE2701	CAD Lab	2	PML
7	HSE2	Humanities Elective 2	3	HSS
8	MAE2	Mathematics Elective 2	3	SMA
		Total Credits	25	

^{*}Pass / Fail course. Not considered for GPA / CGPA calculations. **Zero credits, but attendance is mandatory.

Electrical Engineering 2015 Batch

Sl.	Course		Course	Course
No		Course Title		Category
Sen	nester 5		•	
1	EE2003	Power Systems	4	PMT
2	EE3001	Solid State Devices	4	PMT
3	EE3004	Control Engineering	4	PMT
4	EE3005	Analog and Digital Communication Systems	4	PMT
5	EE3125	Control Systems Laboratory	2	PML
6	EE3703	Analog Circuits Laboratory	2	PML
7	PME1	Professional Major Elective 1	3	PME
Mir	imum Cre	edits: B.Tech / B.Tech Honours	20 / 23	
Sen	nester 6		•	
1	EE3010	Digital Signal Processing	4	PMT
2	EE3015	Measurements and Instrumentation	4	PMT
3	EE3115	Measurements and Instrumentation Lab	2	PML
4	EE3110	Electrical Machines Lab	2	PML
5	EE3135	Internship	2	PMP
6	PME2	Professional Major Elective 2	3	PME
7	PME3	Professional Major Elective 3	3	PME
8	GCE1	General Category Elective 1	3	GCE
9	GCE2	General Category Elective 2	3	GCE
Mir	imum Cre	edits: B.Tech / B.Tech Honours	23 / 26	
Sen	nester 7		•	
1	EE4110	Communication Systems and Microwave Lab	2	PML
	EE4120	Power Systems Lab	2	PML
2	EE4130	Project Phase I	3	PMP
3	HS3050	Professional Ethics	2	HPF
4	PME4	Professional Major Elective 4	3	PME
5	PME5	Professional Major Elective 5	3	PME
6	PME6	Professional Major Elective 6	3	PME
7	PME7	Professional Major Elective 7	3	PME
8	GCE3	General Category Elective 3	3	GCE
Mir	imum Cre	edits: B.Tech / B.Tech (Honours)	18 / 24	!
Sen	nester 8			
1	EE4135	Project Phase II	7	PMP
2	PME8	Professional Major Elective 8	3	PME
3	GCE4	General Category Elective 4	3	GCE
Mir	imum Cre	edits: B.Tech / B.Tech (Honours)	10 / 13	

Mechanical Engineering 2015 Batch

I I Olirce Lille	Υ Γ Α Β Η Η									
CS1100 Computational Engineering 4 BET	Γ Υ Γ Α Β Η									
1 CS1100 Computational Engineering 4 BET 2 CY1010 Chemistry I 3 SCY 3 ID1100 Concepts in Engineering Design 3 BET 4 MA1010 Mathematics I 4 SM. 5 ME1120 Engineering Drawing 3 BES 6 PH1010 Physics I 3 SPF 7 PH1030 Physics Laboratory 2 SPF 8 WS1010 Workshop I 2 BES Total Credits 24 Semester 2 1 CY1020 Chemistry II 3 SC 2 CY1030 Chemistry Laboratory 2 SC 3 ID1200 Ecology and Environment 2 BE 4 AM1100 Engineering Mechanics 4 BE 5 GN1100 Life Skills* 2 HP 6 MA1020 Mathematics II 4 SM	Υ Γ Α Β Η Η									
2 CY1010 Chemistry I 3 SCY 3 ID1100 Concepts in Engineering Design 3 BET 4 MA1010 Mathematics I 4 SML 5 ME1120 Engineering Drawing 3 BES 6 PH1010 Physics I 3 SPF 7 PH1030 Physics Laboratory 2 SPF 8 WS1010 Workshop I 2 BES Total Credits 24 Semester 2 1 CY1020 Chemistry II 3 SCY 2 CY1030 Chemistry Laboratory 2 SCY 3 ID1200 Ecology and Environment 2 BE 4 AM1100 Engineering Mechanics 4 BE 5 GN1100 Life Skills* 2 HP 6 MA1020 Mathematics II 4 SM 7 NS1030 National Service Scheme** 0 NS	Υ Γ Α Β Η Η									
3 ID1100 Concepts in Engineering Design 3 BET 4 MA1010 Mathematics I 4 SML 5 ME1120 Engineering Drawing 3 BES 6 PH1010 Physics I 3 SPF 7 PH1030 Physics Laboratory 2 SPF 8 WS1010 Workshop I 2 BES Total Credits 24 Semester 2 1 CY1020 Chemistry II 3 SC 2 CY1030 Chemistry Laboratory 2 SC 3 ID1200 Ecology and Environment 2 BE 4 AM1100 Engineering Mechanics 4 BE 5 GN1100 Life Skills* 2 HP 6 MA1020 Mathematics II 4 SM 7 NS1030 National Service Scheme** 0 NS 8 PH1020 Physics II 3 SPI	Γ Α S H H									
4 MA1010 Mathematics I 4 SM. 5 ME1120 Engineering Drawing 3 BES 6 PH1010 Physics I 3 SPF 7 PH1030 Physics Laboratory 2 SPF 8 WS1010 Workshop I 2 BES Total Credits Semester 2 1 CY1020 Chemistry II 3 SCC 2 CY1030 Chemistry Laboratory 2 SC 3 ID1200 Ecology and Environment 2 BE 4 AM1100 Engineering Mechanics 4 BE 5 GN1100 Life Skills* 2 HP 6 MA1020 Mathematics II 4 SM 7 NS1030 National Service Scheme** 0 NS 8 PH1020 Physics II 3 SPI 9 ME1100 Thermodynamics 3 BE 10 WS1020 Workshop II 2 BES Total Credi	S H H									
5 ME1120 Engineering Drawing 3 BES 6 PH1010 Physics 1 3 SPF 7 PH1030 Physics Laboratory 2 SPF 8 WS1010 Workshop I 2 BES Total Credits Semester 2 1 CY1020 Chemistry II 3 SC 2 CY1030 Chemistry Laboratory 2 SC 3 ID1200 Ecology and Environment 2 BE 4 AM1100 Engineering Mechanics 4 BE 5 GN1100 Life Skills* 2 HP 6 MA1020 Mathematics II 4 SM 7 NS1030 National Service Scheme** 0 NS 8 PH1020 Physics II 3 SPI 9 ME1100 Thermodynamics 3 BE 10 WS1020 Workshop II 2 BE	I I									
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5 GN1100 Life Skills* 2 HP 6 MA1020 Mathematics II 4 SM 7 NS1030 National Service Scheme** 0 NS 8 PH1020 Physics II 3 SPI 9 ME1100 Thermodynamics 3 BE 10 WS1020 Workshop II 2 BES Total Credits 25 Semester 3 1 EE1100 Basic Electrical Engineering 3 BE 2 AM2530 Foundations of Fluid Mechanics 4 PM 3 ME2050 Machine Drawing Practice 4 PM 4 AM2200 Strength of Materials 4 PM 5 BT1010 Life Sciences 2 SLS	Γ									
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4AM2200Strength of Materials4PM5BT1010Life Sciences2SLS	<u>T</u>									
5 BT1010 Life Sciences 2 SLS	T									
6 HSE1 Humanities Elective 1 3 HS										
7 MAE1 Mathematics Elective 1 3 SM	<u>A</u>									
Total Credits 23										
Semester 4										
1 ME2220 Kinematics and Dynamics of Machinery 4 PM	T									
2 ME2240 Measurements, Instrumentation and Control 4 PM	ΙΤ									
3 ME2260 Materials and Design 4 PM	T									
4 ME2280 Manufacturing Processes 4 PM	Τ									
5 ME2540 Applied Mechanics Lab 2 PM	<u> </u>									
6 HSE2 Humanities Elective 2 3 HS										
7 MAE2 Mathematics Elective 2 3 SM										
Total Credits 24	S									

^{*}Pass / Fail course. Not considered for GPA / CGPA calculations. **Zero credits, but attendance is mandatory.

Mechanical Engineering 2015 Batch

Sl.	Course	Course Title		Course
No	Code	Course True	Credit	Category
Sen	nester 5		1	
1	ME3010	Gas Dynamics	3	PMT
2	ME3020	Heat and Mass Transfer	4	PMT
3	ME3030	Combustion and IC Engines	4	PMT
4	ME3040	Machine Tools and Metrology	4	PMT
5	ME3050	Design of Machine Elements	4	PMT
6	ME3170	Mechanical Engineering Laboratory 1	2	PML
7	PME1	Professional Major Elective 1	3	PME
8	GCE1	General Category Elective 1	3	GCE
	Minimu	m Credits: B.Tech / B.Tech Honours	24 / 27	
Sen	nester 6			
1	ME3015	Applied Thermo-Fluids Engineering	4	PMT
2	ME3025	Mechanical Vibrations	3	PMT
3	ME3035	Automation in Manufacturing	3	PMT
4	ME3180	Mechanical Engineering Laboratory 2	2	PML
5	ME3100	Internship	2	PMP
6	PME2	Professional Major Elective 2	3	PME
7	PME3	Professional Major Elective 3	3	PME
8	GCE2	General Category Elective 2	3	GCE
	Minimu	m Credits: B.Tech / B.Tech Honours	20 / 23	
Sen	nester 7			
1	ME4010	Industrial Engineering and Management	4	PMT
2	ME4170	Mechanical Engineering Laboratory 3	2	PML
3	ME4150	Project Phase I	3	PMP
4	HS3050	Professional Ethics	2	HPF
5	PME4	Professional Major Elective 4	3	PME
6	PME5	Professional Major Elective 5	3	PME
7	PME6	Professional Major Elective 6	3	PME
8	PME7	Professional Major Elective 7	3	PME
	Minimun	n Credits: B.Tech / B.Tech (Honours)	17 / 23	
Sen	nester 8		•	
1	ME4160	Project Phase II	7	PMP
2	PME8	Professional Major Elective 8	3	PME
3	GCE3	General Category Elective 3	3	GCE
	Minimun	n Credits: B.Tech / B.Tech (Honours)	10 / 13	

Course Structure 2016 Batch

Sl	Stream	Nature 2010 Bate	Code	Semester	Credits	Credits		Credits
No					CGPA	Transferable**	Required	Sub-Total
A.]	Humanities	and Basic Sciences				T	I	T
1	HS	Elective: Theory	HSS	3 - 4	06		10	
		Pass / Fail	HPF	2 & 7	04		-	
2	CY	Core: Theory	SCY	1 - 2	06		08	
		Core: Lab	SCY	2	02		0.0	1.0
3	LS	Core: Theory	SLS	3	02		02	42
4	MA	Core: Theory	SMA	1 - 2	08		14	
•	1,111	Elective: Theory	MAE	3 - 4	06			
5	PH	Core: Theory	SPH	1 - 2	06		08	
		Core: Lab	SPH	1	02			
B. 1	Basic Engin	eering: Common to		nches		_	•	
1	CE, ME	Basic: Theory	BET	1 – 3	19		26	26
1	CL, WIL	Basic: Skill	BES	1 - 3	07		20	20
2	CSE, EE	Basic: Theory	BET	1 - 3	16		23	23
	ŕ	Basic: Skill	BES	1 - 3	07		23	23
C.]	Professiona	l Major: Branch Sp						
		Core: Theory	PMT	3 - 7	56		66	
		Core: Lab	PML	3 - 7	10			
1	CE	Elective: Theory	PME	5 - 8	12 / 27	06	12 / 27	90 /105 [*]
		Internship	PMP	6	02		02	
		Project	PMP	7 - 8	10		10	
		Core: Theory	PMT	3 - 7	41		59	
		Core: Lab	PML	3 - 7	18]	39	
2	CSE	Elective: Theory	PME	5 - 8	19 / 34*	06	19 / 34*	90 / 105*
		Internship	PMP	6	02		02]
		Project	PMP	7 - 8	10		10]
		Core: Theory	PMT	3 - 7	51		60	
		Core: Lab	PML	3 - 7	18		69	
3	EE	Elective: Theory	PME	5 - 8	09 / 24	06	09 / 24*	90 / 105*
		Internship	PMP	6	02		02	
		Project	PMP	7 - 8	10		10	
		Core: Theory	PMT	3 - 7	61		60	
	ļ	Core: Lab	PML	3 - 7	08		69	
4	ME	Elective: Theory	PME	5 - 8	09 / 24	06	09 / 24	90 / 105*
		Internship	PMP	6	02		02	
		Project	PMP	7 - 8	10		10	
D.	General Ca	tegory: Common to						
1	CE	Elective: Theory	GCE	5 - 8	09	03	09	09
2	CSE	Elective: Theory	GCE	5 - 8	12	03	12	12
3	EE	Elective: Theory	GCE	5 - 8	12	03	12	12
4	ME	Elective: Theory	GCE	5 - 8	09	03	09	09
	Others						, *-	
	CE, CSE,	Co-Curricular	NICC		00			00
1	EE & ME	activity	NSS	2	00		00	00
3.60	Minimum Dequired Credits (A+D+C+D+F): P. Teeb / P. Teeb (Heneurs)							

Minim	Minimum Required Credits (A+B+C+D+E): B. Tech / B. Tech (Honours)									
Branch	Total Credits	Branch	Total Credits							
CE	42 + 26 + 90 / 105 + 09 + 00 = 167 / 182	EE	42 + 23 + 90 / 105 + 12 + 00 = 167 / 182							
CSE	42 + 23 + 90 / 105 + 12 + 00 = 167 / 182	ME	42 + 26 + 90 / 105 + 09 + 00 = 167 / 182							

Not included for CGPA calculation. *15 credits for honours programme. **Option of credit transfer for online courses and courses at other Institutes.

Semester wise courses-credits distribution 2016 Batch

	Semester wise courses-credits distribution 2016 Batch Sl Stream Code Semester: No of courses (Credits) Sub-Total Total											
Sl	Stream	Code	Semest	ter: No	of cours	ses (Cre	edits)				Sub-Total	Total
No			1	2	3	4	5	6	7	8	Cours. (Crd.)	Cours. (Crd.)
A.	Humanitio	es and	Basic S	ciences	: Com	non to	all bra	nches				
		HSS			1(3)	1(3)					4 (10)	
1	HS	HPF		1(2)					1(2)		4 (10)	
_	CV	SCY	1(3)	1(3)							2 (0)	
2	CY	SCY		1(2)							3 (8)	15 (42)
3	LS	SLS			1(2)						1(2)	15 (42)
4	MA	SMA	1(4)	1(4)								
4	MA	MAE			1(3)	1(3)					4 (14)	
5	DII	SPH	1(3)	1(3)							2 (0)	
3	PH	SPH	1(2)								3 (8)	
B.]	Basic Engi	ineerin	g: Con	ımon to	all bra	anches						
1	CE ME	BET	2 (7)	3(9)	1(3)						6 (19)	0 (26)
1	CE, ME	BES	2 (5)	1(2)							3 (7)	9 (26)
2	CSE, EE	BET	2 (7)	3(9)							5 (16)	8 (23)
2	CSE, EE	BES	2 (5)	1(2)							3 (7)	8 (23)
C. 1	Profession	al Maj	or: Bra	anch Sp	ecific							
		PMT			3(10)	4(16)	4(15)	3(11)	1(4)		15 (56)	
1	CE	PML			1(2)	1(2)	1(2)	1(2)	1(2)		5 (10)	$24 + 05^{\$}$
1	CE	PME					2(6)	2(6)	3(9)	2(6)	4+5 (12+15*)	(90 + 15*)
		PMP						1(2)	1(3)	1(7)	3 (12)**	, , , , , , , , , , , , , , , , , , ,
		PMT			3(11)	3(11)	3(10)	2(6)	1(3)		12 (41)	
	COL	PML			2(4)	2(4)	2(4)	2(4)	1(2)		9 (18)	$26 + 04^{\$}$
2	CSE	PME					2(8)	2(8)	4(15)	1(3)	5+4*(19+15*)	(90 + 15)
		PMP						1(2)	1(3)	1(7)	3 (12)**	
		PMT			3(12)	4(15)	4(16)	2(8)			13 (51)	
_		PML			1(2)	2(4)	2(4)	2(4)	2(4)		9 (18)	$25 + 05^{\$}$
3	EE	PME					1(3)	2(6)	4(12)	1(3)	3+5 (9+15*)	(90 + 15*)
		PMP						1(2)	1(3)	1(7)	3 (12)**	
		PMT			3(12)	4(16)	5(19)	3(10)	1(4)		16 (61)	
		PML				1(2)	1(2)	1(2)	1(2)		4 (8)	23 + 05 ^{\$}
4	ME	PME					1(3)	2(6)	4(12)	1(3)	3+5 (9+15*)	(90 + 15*)
	}	PMP						1(2)		1(7)	3 (12)**	
D	General C							1(2)	1(3)	1(/)	J (12)	<u> </u>
1	CE	GCE	y. Com				1(3)	1(3)	1(3)		3 (9)	3 (09)
2	CSE	GCE					1(3)	2(6)		1(3)	4 (12)	4 (12)
3	EE	GCE					1(3)	1(3)	1(3)	1(3)	4 (12)	4 (12)
4	ME	GCE					1(3)	1(3)		1(3)	3 (9)	3 (09)
	Others	CCL					1(3)	1(3)		1(3)	1~ (*)	• (0 <i>)</i>
	CE, CSE,											
1	EE, ME	NSS		1(0)								00
L	-L, 111L			I			I		l		<u> </u>	l

Minimum Required Credits (A+B+C+D+E): B. Tech / B. Tech (Honours)								
Dronoh	Total			Total				
Branch	Credits	Courses#	Branch		Courses#			
CE	42+26+90/105+09+00 = 167/182	(51/56)	EE	42+23+90/105+12+00 = 167/182	(52/57)			
CSE	42+26+90/105+12+00 = 167/182	(53/58)	ME	42+26+90/105+09+00 = 167/182	(50/55)			

Additional courses for honours programme. *15 additional credits for honours programme. **Internship & Project. *Does not include internship and project.

Civil Engineering 2016 Batch

	Course		Course	Course					
	Code	Course Title	Credit	Category					
Ser	mester 1		•	1					
1	CS1100	Computational Engineering	4	BET					
2	CY1010	Chemistry I	3	SCY					
3	ID1100	Concepts in Engineering Design	3	BET					
4	MA1010	Mathematics I	4	SMA					
5	ME1120	Engineering Drawing	3	BES					
6	PH1010	Physics 1	3	SPH					
7	PH1030	Physics Laboratory	2	SPH					
8	WS1010	Workshop I	2	BES					
		Total Credits	24						
Semester 2									
1	CY1020	Chemistry II	3	SCY					
2	CY1030	Chemistry Laboratory	2	SCY					
3	ID1200	Ecology and Environment	2	BET					
4	AM1100	Engineering Mechanics	4	BET					
5	GN1100	Life Skills*	2	HPF					
6	MA1020	Mathematics II	4	SMA					
7	NS1030	National Service Scheme**	0	NSS					
8	PH1020	Physics II	3	SPH					
9	ME1100	Thermodynamics	3	BET					
10	WS1020	Workshop II	2	BES					
		Total Credits	25						
Ser	mester 3								
1	EE1100	Basic Electrical Engineering	3	BET					
2	CE2050	Building Drawing	2	PML					
3	CE2330	Civil Engineering Materials and Construction	4	PMT					
4	CE1020	Functional Design of Buildings	2	PMT					
5	AM2200	Strength of Materials	4	PMT					
6	BT1010	Life Sciences	2	SLS					
7	HSE1	Humanities Elective 1	3	HSS					
8	MAE1	Mathematics Elective 1	3	SMA					
		Total Credits	23						
Ser	mester 4								
1	CE2020	Structural Engineering	4	PMT					
2	CE2040	Hydraulic Engineering	4	PMT					
3	CE2060	Geology and Soil Mechanics	4	PMT					
4	CE2080	Surveying Theory	4	PMT					
5	CE2100	Surveying Practical	2	PML					
6	HSE2	Humanities Elective 2	3	HSS					
	MATO	Mathematics Elective 2	3	SMA					
7	MAE2	Total Credits	24	JIVIA					

^{*}Pass / Fail course. Not considered for GPA / CGPA calculations. **Zero credits, but attendance is mandatory.

Civil Engineering 2016 Batch

Sl. No	Course Code	Course Title	Course Credit	Course Category
	nester 5		Creare	category
1	CE3010	Transportation Engineering I	3	PMT
2	CE3030	Water Resources Engineering	4	PMT
3	CE3060	Basic Reinforced Concrete Design	4	PMT
4	CE3350	Geotechnical Engineering	4	PMT
5	CE3410	Construction Materials Laboratory	2	PML
6	PME1	Professional Major Elective 1	3	PME
7	PME2	Professional Major Elective 2	3	PME
8	GCE1	General Category Elective 1	3	GCE
	Minimur	n Credits: B.Tech / B.Tech (Honours)	23 / 26	
Sen	nester 6			
1	CE3015	Transportation Engineering II	3	PMT
2	CE3025	Environmental Engineering	4	PMT
3	CE3035	Basic Structural Steel Design	4	PMT
4	CE3115	Hydraulic and Environmental Engineering Laboratory	2	PML
5	CE3125	Internship	2	PMP
6	PME3	Professional Major Elective 3	3	PME
7	PME4	Professional Major Elective 4	3	PME
8	GCE2	General Category Elective 2	3	GCE
	Minimur	n Credits: B.Tech / B.Tech (Honours)	21 / 24	
Sen	nester 7		•	
1	CE4010	Estimation & Construction Management	4	PMT
2	CE4030	Structural Engineering Laboratory	2	PML
3	CE4050	Project Phase I	3	PMP
4	HS3050	Professional Ethics	2	HPF
5	PME5	Professional Major Elective 5	3	PME
6	PME6	Professional Major Elective 6	3	PME
7	PME7	Professional Major Elective 7	3	PME
8	GCE3	General Category Elective 3	3	GCE
	Minimur	n Credits: B.Tech / B.Tech (Honours)	17 / 23	
Sen	nester 8			
1	CE4060	Project Phase II	7	PMP
2	PME8	Professional Major Elective 8	3	PME
3	PME9	Professional Major Elective 9	3	PME
	Minimur	n Credits: B.Tech / B.Tech (Honours)	10 / 13	

Computer Science and Engineering 2016 Batch

	Course Code	Course Title	Course Credit	Course Category
Ser	nester 1			
1	CS1100	Computational Engineering	4	BET
2	CY1010	Chemistry I	3	SCY
3	ID1100	Concepts in Engineering Design	3	BET
4	MA1010	Mathematics I	4	SMA
5	ME1120	Engineering Drawing	3	BES
6	PH1010	Physics 1	3	SPH
7	PH1030	Physics Laboratory	2	SPH
8	WS1010	Workshop I	2	BES
		Total Credits	24	
Ser	nester 2		•	
1	CY1020	Chemistry II	3	SCY
2	CY1030	Chemistry Laboratory	2	SCY
3	ID1200	Ecology and Environment	2	BET
4	AM1100	Engineering Mechanics	4	BET
5	GN1100	Life Skills*	2	HPF
6	MA1020	Mathematics II	4	SMA
7	NS1030	National Service Scheme**	0	NSS
8	PH1020	Physics II	3	SPH
9	ME1100	Thermodynamics	3	BET
10	WS1020	Workshop II	2	BES
	I	Total Credits	25	1
Ser	nester 3			
1	EE1101	Signals and Systems	4	PMT
2	CS2110	Computer Programming Laboratory	2	PML
3	EE2702	Digital Circuits Laboratory	2	PML
4	EE2001	Digital Systems	4	PMT
5	CS2100	Discrete Mathematics for Computer Science	3	PMT
6	BT1010	Life Sciences	2	SLS
7	HSE1	Humanities Elective 1	3	HSS
8	MAE1	Mathematics Elective 1	3	SMA
		Total Credits	23	
Ser	nester 4		- L	
1	CS2600	Computer Organization	3	PMT
2	CS2610	Computer Organization Laboratory	2	PML
3	CS2800	Data Structures and Algorithms	4	PMT
4	CS2810	Data Structures and Algorithms Lab	2	PML
5	CS2200	Language Machines and Computations	4	PMT
6	HSE2	Humanities Elective 2	3	HSS
7	MAE2	Mathematics Elective 2	3	SMA
<u> </u>		Total Credits	21	1 31:11

^{*}Pass / Fail course. Not considered for GPA / CGPA calculations. **Zero credits, but attendance is mandatory.

Computer Science and Engineering 2016 Batch

	Sl. Course Course							
No		Course Title		Category				
	nester 5		Credit	cutegory				
1	CS3100	Paradigms of Programming	4	PMT				
2	CS3300	Language Translators	3	PMT				
3	CS3310	Language Translators Laboratory	2	PML				
4	CS3500	Operating Systems	3	PMT				
5	CS3510	Operating Systems Laboratory	2	PML				
6	PME1	Professional Major Elective 1	4	PME				
7	PME2	Professional Major Elective 2	4	PME				
8	GCE1	General Category Elective 1	3	GCE				
	Minimu	m Credits: B.Tech / B.Tech Honours	21 / 25					
Sen	nester 6							
1	CS3200	Computer Networks	3	PMT				
2	CS3210	Computer Networks Lab	2	PML				
3	CS3700	Introduction to Database Systems	3	PMT				
4	CS3710	Database Systems Lab	2	PML				
5	CS3660	Internship	2	PMP				
6	PME3	Professional Major Elective 3	4	PME				
7	PME4	Professional Major Elective 4	4	PME				
8	GCE2	General Category Elective 2	3	GCE				
9	GCE3	General Category Elective 3	3	GCE				
	Minimu	m Credits: B.Tech / B.Tech Honours	22 / 26					
Sen	nester 7							
1	CS3400	Principles of Software Engineering	3	PMT				
2	CS3410	Principles of Software Engineering Lab	2	PML				
3	CS4800	Project Phase I	3	PMP				
4	HS3050	Professional Ethics	2	HPF				
5	PME5	Professional Major Elective 5	4	PME				
6	PME6	Professional Major Elective 6	4	PME				
7	PME7	Professional Major Elective 7	4	PME				
8	PME8	Professional Major Elective 8	3	PME				
		m Credits: B.Tech / B.Tech (Honours)	21 / 25					
	nester 8		1	T				
1	CS4810	Project Phase II	7	PMP				
2	PME9	Professional Major Elective 9	3	PME				
3	GCE4	General Category Elective 4	3	GCE				
	Minimui	n Credits: B.Tech / B.Tech (Honours)	10/13					

Electrical Engineering 2016 Batch

	Course	Course Title	Course	Course
No	Code	course True	Credit	Category
Ser	nester 1			
1	CS1100	Computational Engineering	4	BET
2	CY1010	Chemistry I	3	SCY
	ID1100	Concepts in Engineering Design	3	BET
	MA1010	Mathematics I	4	SMA
5	ME1120	Engineering Drawing	3	BES
	PH1010	Physics 1	3	SPH
7	PH1030	Physics Laboratory	2	SPH
8	WS1010	Workshop I	2	BES
		Total Credits	24	
Ser	nester 2			
1	CY1020	Chemistry II	3	SCY
2	CY1030	Chemistry Laboratory	2	SCY
3	ID1200	Ecology and Environment	2	BET
4	AM1100	Engineering Mechanics	4	BET
5	GN1100	Life Skills*	2	HPF
6	MA1020	Mathematics II	4	SMA
7	NS1030	National Service Scheme**	0	NSS
8	PH1020	Physics II	3	SPH
9	ME1100	Thermodynamics	3	BET
10	WS1020	Workshop II	2	BES
		Total Credits	25	
Ser	nester 3			
1	EE2702	Digital Circuits Laboratory	2	PML
2	EE2001	Digital Systems	4	PMT
3	EE1001	Electrical and Magnetic Circuits	4	PMT
4	EE1101	Signals and Systems	4	PMT
5	BT1010	Life Sciences	2	SLS
6	HSE1	Humanities Elective 1	3	HSS
7	MAE1	Mathematics Elective 1	3	SMA
		Total Credits	22	
Ser	nester 4			
1	CS2600	Computer Organization	3	PMT
2	CS2610	Computer Organization Lab	2	PML
3	EE2005	Electrical Machines	4	PMT
4	EE2006	Electromagnetic Fields	4	PMT
5	EE3002	Analog Circuits Theory	4	PMT
6	EE2701	CAD Lab	2	PML
7	HSE2	Humanities Elective 2	3	HSS
8	MAE2	Mathematics Elective 2	3	SMA
		Total Credits	25	•

^{*}Pass / Fail course. Not considered for GPA / CGPA calculations. **Zero credits, but attendance is mandatory.

Electrical Engineering 2016 Batch

Sl.	Course		Course	Course		
No		Course Title		Category		
Sen	Semester 5					
1	EE2003	Power Systems	4	PMT		
2	EE3001	Solid State Devices	4	PMT		
3	EE3004	Control Engineering	4	PMT		
4	EE3005	Analog and Digital Communication Systems	4	PMT		
5	EE3125	Control Systems Laboratory	2	PML		
6	EE3703	Analog Circuits Laboratory	2	PML		
7	PME1	Professional Major Elective 1	3	PME		
8	GCE1	General Category Elective 1	3	GCE		
Mir	imum Cre	edits: B.Tech / B.Tech Honours	23 / 26			
Sen	nester 6					
1	EE3010	Digital Signal Processing	4	PMT		
2	EE3015	Measurements and Instrumentation	4	PMT		
3	EE3115	Measurements and Instrumentation Lab	2	PML		
4	EE3110	Electrical Machines Lab	2	PML		
5	EE3135	Internship	2	PMP		
6	PME2	Professional Major Elective 2	3	PME		
7	PME3	Professional Major Elective 3	3	PME		
8	GCE2	General Category Elective 2	3	GCE		
Mir	Minimum Credits: B.Tech / B.Tech Honours 20 / 23					
Sen	nester 7					
1	EE4110	Communication Systems and Microwave Lab	2	PML		
	EE4120	Power Systems Lab	2	PML		
2	EE4130	Project Phase I	3	PMP		
3	HS3050	Professional Ethics	2	HPF		
4	PME4	Professional Major Elective 4	3	PME		
5	PME5	Professional Major Elective 5	3	PME		
6	PME6	Professional Major Elective 6	3	PME		
7	PME7	Professional Major Elective 7	3	PME		
8	GCE3	General Category Elective 3	3	GCE		
Mir	Minimum Credits: B.Tech / B.Tech (Honours) 18 / 24					
Sen	nester 8					
1	EE4135	Project Phase II	7	PMP		
2	PME8	Professional Major Elective 8	3	PME		
3	GCE4	General Category Elective 4	3	GCE		
Minimum Credits: B.Tech / B.Tech (Honours) 10						

Mechanical Engineering 2016 Batch

	Course	Course Title	Course	Course			
	Code		Credit	Category			
	Semester 1						
	CS1100	Computational Engineering	4	BET			
	CY1010	Chemistry I	3	SCY			
	ID1100	Concepts in Engineering Design	3	BET			
	MA1010	Mathematics I	4	SMA			
	ME1120	Engineering Drawing	3	BES			
	PH1010	Physics 1	3	SPH			
	PH1030	Physics Laboratory	2	SPH			
8	WS1010	Workshop I	2	BES			
		Total Credits	24				
Sen	nester 2						
1	CY1020	Chemistry II	3	SCY			
2	CY1030	Chemistry Laboratory	2	SCY			
3	ID1200	Ecology and Environment	2	BET			
4	AM1100	Engineering Mechanics	4	BET			
5	GN1100	Life Skills*	2	HPF			
6	MA1020	Mathematics II	4	SMA			
7	NS1030	National Service Scheme**	0	NSS			
8	PH1020	Physics II	3	SPH			
9	ME1100	Thermodynamics	3	BET			
10	WS1020	Workshop II	2	BES			
	Total Credits 25						
Sen	nester 3						
1	EE1100	Basic Electrical Engineering	3	BET			
2	AM2530	Foundations of Fluid Mechanics	4	PMT			
3	ME2050	Machine Drawing Practice	4	PMT			
4	AM2200	Strength of Materials	4	PMT			
5	BT1010	Life Sciences	2	SLS			
6	HSE1	Humanities Elective 1	3	HSS			
7	MAE1	Mathematics Elective 1	3	SMA			
		Total Credits	23	1			
Sen	nester 4		•				
1	ME2220	Kinematics and Dynamics of Machinery	4	PMT			
		Measurements, Instrumentation and					
2	ME2240	Control	4	PMT			
3	ME2260	Materials and Design	4	PMT			
4	ME2280	Manufacturing Processes	4	PMT			
5	ME2540	Applied Mechanics Lab	2	PML			
6	HSE2	Humanities Elective 2	3	HSS			
7	MAE2	Mathematics Elective 2	3	SMA			
Total Credits 24							

^{*}Pass / Fail course. Not considered for GPA / CGPA calculations. **Zero credits, but attendance is mandatory.

3

PMT

Me	Mechanical Engineering 2016 Batch					
	Course Code	Course Title		Course Categor		
Sen	Semester 5					
1	ME3010	Gas Dynamics	3	PMT		
2	ME3020	Heat and Mass Transfer	4	PMT		
3	ME3030	Combustion and IC Engines	4	PMT		
4	ME3040	Machine Tools and Metrology	4	PMT		
5	ME3050	Design of Machine Elements	4	PMT		
6	ME3170	Mechanical Engineering Laboratory 1	2	PML		
7	PME1	Professional Major Elective 1	3	PME		
8	GCE1	General Category Elective 1	3	GCE		
	Minimum Credits: B.Tech / B.Tech Honours 24 / 27					
Sen	Semester 6					
1	ME3015	Applied Thermo-Fluids Engineering	4	PMT		

Mechanical Vibrations

2

ME3025

ME3180 Mechanical Engineering Laboratory 2 2 PML ME3100 Internship 2 PMP PME3 Professional Major Elective 2 3 PME PME3 Professional Major Elective 3 3 PME GCE2 General Category Elective 2 3 GCE Minimum Credits: B.Tech / B.Tech Honours Semester 7 ME4010 Industrial Engineering and Management 4 PMT ME4170 Mechanical Engineering Laboratory 3 2 PML ME4150 Project Phase I 3 PMP HS3050 Professional Ethics 2 HPF PME4 Professional Major Elective 4 3 PME PME5 Professional Major Elective 5 3 PME PME6 Professional Major Elective 6 3 PME PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) ME4160 Project Phase II 7 PMP PME8 Professional Major Elective 8 3 PME						
ME3100 Internship ME3100 Internship ME3100 Internship ME32 Professional Major Elective 2 PME3 Professional Major Elective 3 ME48 GCE2 General Category Elective 2 Minimum Credits: B.Tech / B.Tech Honours ME4010 Industrial Engineering and Management ME4170 Mechanical Engineering Laboratory 3 ME4150 Project Phase I ME4050 Professional Ethics PME4 Professional Major Elective 4 PMF PME6 Professional Major Elective 5 PME6 Professional Major Elective 6 PME7 Professional Major Elective 7 Minimum Credits: B.Tech / B.Tech (Honours) ME4160 Project Phase II ME4160 Professional Major Elective 8 GCE3 General Category Elective 3 ME4160 GREAT PME6 PME6 Professional Major Elective 8 ME4160 GREAT PME6 ME4160 Project Phase II ME4160 Professional Major Elective 8 ME4160 GREAT PME6 ME4160 Professional Major Elective 8 ME4160 GREAT PME6 ME4160 PROJECT PHASE II ME4160 PROJECT PHASE II ME4160 PROJECT PHASE II ME4160 GREAT PME6 ME4160 GREAT PME6 ME4160 GREAT PME6 ME4160 PROJECT PHASE II ME4160 PROJECT PHASE II ME4160 GREAT PME6 ME4160 GREAT PME6 ME4160 PROJECT PHASE II ME4160 PROJECT PHASE II ME4160 GREAT PME6 ME4160 GREAT PME6 ME4160 GREAT PME6 ME4160 PROJECT PHASE II ME4160 PROJECT PHASE II ME4160 GREAT PME6 ME4160 GREAT PME6 ME4160 PROJECT PHASE II ME4160 GREAT PME6 ME4160 GRE	3	ME3035 Automation in Manufacturing			PMT	
PME2 Professional Major Elective 2 3 PME PME3 Professional Major Elective 3 3 PME REST PME3 Professional Major Elective 2 3 GCE Minimum Credits: B.Tech / B.Tech Honours Semester 7 ME4010 Industrial Engineering and Management 4 PMT ME4170 Mechanical Engineering Laboratory 3 2 PML ME4150 Project Phase I 3 PMP HS3050 Professional Ethics 2 HPF PME4 Professional Major Elective 4 3 PME PME5 Professional Major Elective 5 3 PME PME6 Professional Major Elective 6 3 PME PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) Semester 8 ME4160 Project Phase II 7 PMP PME8 Professional Major Elective 8 3 PME GCE3 General Category Elective 3 3 PME	4	ME3180	Mechanical Engineering Laboratory 2		PML	
PME3 Professional Major Elective 3 3 GCE Minimum Credits: B.Tech / B.Tech Honours Semester 7 ME4010 Industrial Engineering and Management 4 PMT ME4170 Mechanical Engineering Laboratory 3 2 PML ME4150 Project Phase I 3 PMP HS3050 Professional Ethics 2 HPF PME4 Professional Major Elective 4 3 PME PME5 Professional Major Elective 5 3 PME PME6 Professional Major Elective 6 3 PME PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) Semester 8 ME4160 Professional Major Elective 8 ME4160 Professional Major Elective 8 GCE3 General Category Elective 3 GCE	5	ME3100			PMP	
GCE2 General Category Elective 2 3 GCE Minimum Credits: B.Tech / B.Tech Honours Semester 7 ME4010 Industrial Engineering and Management 4 PMT ME4170 Mechanical Engineering Laboratory 3 2 PML ME4150 Project Phase I 3 PMP HS3050 Professional Ethics 2 HPF PME4 Professional Major Elective 4 3 PME PME5 Professional Major Elective 5 3 PME PME6 Professional Major Elective 6 3 PME PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) Semester 8 ME4160 Project Phase II 7 PMP PME8 Professional Major Elective 8 3 PME GCE3 General Category Elective 3 3 PME	6	PME2	Professional Major Elective 2	3	PME	
Minimum Credits: B.Tech / B.Tech Honours Semester 7 1 ME4010 Industrial Engineering and Management 4 PMT 2 ME4170 Mechanical Engineering Laboratory 3 2 PML 3 ME4150 Project Phase I 3 PMP 4 HS3050 Professional Ethics 2 HPF 5 PME4 Professional Major Elective 4 3 PME 6 PME5 Professional Major Elective 5 3 PME 7 PME6 Professional Major Elective 6 3 PME 8 PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) Semester 8 1 ME4160 Project Phase II 7 PMP 2 PME8 Professional Major Elective 8 3 PME 3 GCE3 General Category Elective 3 3 PME	7	PME3	Professional Major Elective 3	3	PME	
Semester 7 1 ME4010 Industrial Engineering and Management 4 PMT 2 ME4170 Mechanical Engineering Laboratory 3 2 PML 3 ME4150 Project Phase I 3 PMP 4 HS3050 Professional Ethics 2 HPF 5 PME4 Professional Major Elective 4 3 PME 6 PME5 Professional Major Elective 5 3 PME 7 PME6 Professional Major Elective 6 3 PME 8 PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) 17 / 23 Semester 8 1 ME4160 Project Phase II 7 PMP 2 PME8 Professional Major Elective 8 3 PME 3 GCE3 General Category Elective 3 3 GCE	8	GCE2	General Category Elective 2	3	GCE	
ME4010 Industrial Engineering and Management 4 PMT ME4170 Mechanical Engineering Laboratory 3 2 PML ME4150 Project Phase I 3 PMP HS3050 Professional Ethics 2 HPF PME4 Professional Major Elective 4 3 PME PME5 Professional Major Elective 5 3 PME PME6 Professional Major Elective 6 3 PME PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) 17 / 23 Semester 8 ME4160 Project Phase II 7 PMP PME8 Professional Major Elective 8 3 PME GCE3 General Category Elective 3 3 PME	Minimum Credits: B.Tech / B.Tech Honours 20 / 23					
ME4170 Mechanical Engineering Laboratory 3 2 PML ME4150 Project Phase I 3 PMP HS3050 Professional Ethics 2 HPF PME4 Professional Major Elective 4 3 PME PME5 Professional Major Elective 5 3 PME PME6 Professional Major Elective 6 3 PME PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) 17 / 23 Semester 8 ME4160 Project Phase II 7 PMP PME8 PME8 Professional Major Elective 8 3 PME GCE3 General Category Elective 8 3 PME	Semester 7					
ME4150 Project Phase I HS3050 Professional Ethics PME4 Professional Major Elective 4 PME5 PME5 Professional Major Elective 5 PME6 Professional Major Elective 6 PME7 PME6 Professional Major Elective 7 Minimum Credits: B.Tech / B.Tech (Honours) Semester 8 ME4160 Project Phase II PME8 PME8 Professional Major Elective 8 GCE3 General Category Elective 3 APME APME	1	ME4010	Industrial Engineering and Management	4	PMT	
HS3050 Professional Ethics PME4 Professional Major Elective 4 PME5 Professional Major Elective 5 PME6 Professional Major Elective 6 PME7 Professional Major Elective 7 PME8 PME7 Professional Major Elective 7 Minimum Credits: B.Tech / B.Tech (Honours) Semester 8 ME4160 Project Phase II PME8 Professional Major Elective 8 GCE3 General Category Elective 3 A HPF A HPF A HPF A PME B PME A GCE A GCE A GCE A HPF A PME A PME A PME A PME A PME A PME A GCE A	2	ME4170	Mechanical Engineering Laboratory 3	2	PML	
Fig. 5 PME4 Professional Major Elective 4 3 PME 6 PME5 Professional Major Elective 5 3 PME 7 PME6 Professional Major Elective 6 3 PME 8 PME7 Professional Major Elective 7 3 PME 7 PME 8 PME7 Professional Major Elective 7 3 PME 8 PME 8 PME7 Professional Major Elective 7 7 PME 17 PME 18 PME 19 PME8 Professional Major Elective 8 3 PME 19 PME8 Professional Major Elective 8 3 PME 19 PME8 PME8 Professional Major Elective 8 3 PME 19 PME8 PME8 PME8 PME8 PME8 PME8 PME8 PME8	3	ME4150	Project Phase I	3	PMP	
6 PME5 Professional Major Elective 5 3 PME 7 PME6 Professional Major Elective 6 3 PME 8 PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) 17 / 23 Semester 8 1 ME4160 Project Phase II 7 PMP 2 PME8 Professional Major Elective 8 3 PME 3 GCE3 General Category Elective 3 3 GCE	4	HS3050	Professional Ethics	2	HPF	
7 PME6 Professional Major Elective 6 3 PME 8 PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) 17 / 23 Semester 8 1 ME4160 Project Phase II 7 PMP 2 PME8 Professional Major Elective 8 3 PME 3 GCE3 General Category Elective 3 3 GCE	5	PME4	Professional Major Elective 4	3	PME	
8 PME7 Professional Major Elective 7 3 PME Minimum Credits: B.Tech / B.Tech (Honours) 17 / 23 Semester 8 1 ME4160 Project Phase II 7 PMP 2 PME8 Professional Major Elective 8 3 PME 3 GCE3 General Category Elective 3 3 GCE	6	PME5	Professional Major Elective 5	3	PME	
Minimum Credits: B.Tech / B.Tech (Honours) Semester 8 1 ME4160 Project Phase II 7 PMP 2 PME8 Professional Major Elective 8 3 PME 3 GCE3 General Category Elective 3 3 GCE	7	PME6	Professional Major Elective 6	3	PME	
Semester 81ME4160Project Phase II7PMP2PME8Professional Major Elective 83PME3GCE3General Category Elective 33GCE	8	PME7	Professional Major Elective 7	3	PME	
1ME4160Project Phase II7PMP2PME8Professional Major Elective 83PME3GCE3General Category Elective 33GCE	Minimum Credits: B.Tech / B.Tech (Honours) 17 / 23					
2 PME8 Professional Major Elective 8 3 PME 3 GCE3 General Category Elective 3 3 GCE	Semester 8					
3 GCE3 General Category Elective 3 3 GCE	1	ME4160	Project Phase II	7	PMP	
	2	PME8	Professional Major Elective 8	3	PME	
Minimum Credits: B.Tech / B.Tech (Honours) 10 / 13	3	GCE3	General Category Elective 3	3	GCE	
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Course Credit and Category

Credits and mode of delivery

The delivery of instructions for a given course depends on the type of course. Some possible course types and the corresponding instruction mode are listed below. The syllabus for a course will have the course type specified. Theory courses will have one session of instruction per week per credit: A three-credit theory course, for instance will have three sessions of instruction per week. Each session is of 50 min in duration. For laboratory, three contiguous sessions are assigned two credits.

Sl	Course Type	Credits	Sessions per week			
No	Course Type		Lecture	Tutorial	Practical	
1	Theory	4	4	0	0	
2	Theory	3	3	0	0	
3	Theory	2	2	0	0	
4	Theory + Tutorial	4	3	1	0	
5	Theory + Tutorial	3	2	1	0	
6	Theory + Tutorial	2	1	1	0	
7	Laboratory	2	0	0	3	
8	Theory + Lab	4	2	0	3	
9	Theory + Lab	3	1	3	0	

Category expansion

The expansion of the acronyms for the course category is as follows.

BES : Basic Engineering SkillsBET : Basic Engineering Theory

GCE: General Category Elective

HPF : Humanities Pass Fail HSE : Humanities Elective

HSS : Humanities and Social Sciences

MAE : Mathematics Elective
NSS : National Service Scheme
PME : Professional Major Elective
PML : Professional Major Laboratory
PMP : Professional Major Practice
PMT : Professional Major Theory

SCY: Science Chemistry
SLS: Science Life Science
SMA: Science Mathematics

SPH : Science Physics