



**1.3.2: Average percentage of courses that include experimental learning through project work/ fields work/ internship during last five years.**

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**1. List of the courses that includes Experimental Learning (EL)**

Number of courses that includes experimental learning through project work/ field work/ internship year wise during last five years in each programme is given in Table below.

Class	Semester	Subjects	Course Code	16	17	18	19	20
				- 17	- 18	- 19	- 20	- 21
<b>F.E.</b>	Sem I	Workshop Practices	BTES205			√	√	
	Sem I	Workshop Practices	WS100L		√			
	Sem I	LAB-VII Workshop Practices-I	MED 127	√				
	Sem I	LAB-VII Workshop Practices-I	MED 126					
	Sem II	Mini Project	BTES210P			√	√	
	Sem II	LAB-XII Workshop Practices-II	MED 175	√				
	Sem II	LAB-XII Workshop Practices-II	MED 174					
	Sem II	Seminar	BTES210S					√
	Sem II	Field Training /Internship/Industrial Training	BTES211P			√	√	√
			<b>Total</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>S.E.</b>	Sem III	Materials Science and Metallurgy	BTMEC302				√	√
	Sem III	Fluid Mechanics	BTMEC303				√	√
	Sem III	Machine Drawing and CAD	BTMEC304				√	√
	Sem III	Thermodynamics	BTMEC305				√	√
	Sem III	Field Training /Internship/Industrial Training I	BTMEF310				√	√
	SEM III	Machine Drawing and Computer-aided Drafting	ME 302			√		



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	Sem III	Thermodynamics	ME 303		√		
	Sem III	Fluid Mechanics	ME 304		√		
	Sem III	Materials Science and Metallurgy	ME 305		√		
	SEM III	Thermodynamics-I	MED202		√		
	Sem III	Machine Drawing	MED203		√		
	Sem III	Strength of Materials	MED204		√		
	Sem III	Production Processes	MED205		√		
	Sem III	Lab 4: Workshop Practice-III	MED224		√		
	Sem III	Thermodynamics-I	MED202	√			
	Sem III	Machine Drawing	MED203	√			
	Sem III	Strength of Materials	MED204	√			
	Sem III	Production Processes-I	MED205	√			
	Sem III	Lab-IV Workshop-III	MED224	√			
	Sem IV	Manufacturing Processes - I	BTMEC401			√	√
	Sem IV	Theory of Machines-I	BTMEC402			√	√
	Sem IV	Strength of Materials	BTMEC403			√	√
	Sem IV	Product Design Engineering – I	BTMEC405			√	√
	SEM IV	Theory of Machines and Mechanisms-I	ME 401		√		
	Sem IV	Strength of Materials	ME 402		√		
	Sem IV	Manufacturing Processes-I	ME 403		√		
	Sem IV	Applied Thermodynamics	ME 404		√		
	SEM IV	Thermodynamics-II	MED252		√		
	Sem IV	Theory of Machines-I	MED253		√		
	Sem IV	Electrical Machines	MED254		√		
	Sem IV	Machine Tools	MED255		√		
	Sem IV	Lab 9: Workshop Practice IV	MED274		√		
	Sem IV	Theory of Machines-II	MED253	√			
	Sem IV	Thermodynamics-II	MED254	√			
	Sem IV	Electrical Machines & Applied Electronics	MED255	√			
	Sem IV	Production Processes-II	MED256	√			
	Sem IV	Lab-VIII Workshop-IV	MED274	√			
<b>T.E.</b>	SemV	Heat Transfer	BTMEC501			√	√
	SemV	Applied Thermodynamics – I	BTMEC501			√	√
	SemV	Machine Design – I	BTMEC502			√	√
	SemV	Theory of Machines II	BTMEC503			√	√
	SemV	Metrology and Quality Control	BTMEC504			√	√
	SemV	Product Design Engineering - II	BTID506			√	√
	SemV	Automobile Engineering	BTMEC506A			√	√
	SemV	Energy Conservation and Management	BTMEC506C			√	√
	SemV	Field Training /Internship/Industrial Training II	BTMEF511			√	√
	SemV	Design of Machine Elements I:	MED301		√		
	SemV	Heat Transfer:	MED303		√		
	SemV	CAD/CAM/CAE	MED304		√		
	SemV	Theory of Machines:	MED305		√		



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	SemV	Minor Project:	MED325			√		
	Sem V	Design OF Machine Elements-I	MED301	√	√			
	SemV	Theory of Machines-II	MED301	√	√			
	SemV	Metallurgy and Materials	MED302	√	√			
	SemV	Fluid Mechanics and Machinery	MED303	√	√			
	SemV	Industrial Management and Engineering Economics	MED304	√	√			
	SemV	Lab-VI Workshop-V	MED305	√	√			
	Sem VI	Manufacturing Processes- II	BTMEC601				√	√
	Sem VI	Machine Design-II	BTMEC602				√	√
	Sem VI	Applied Thermodynamics- II	BTMEC603				√	√
	Sem VI	IC Engines	B30912949				√	√
	Sem VI	Additive Manufacturing	B30912949				√	√
	Sem VI	Mechanical Measurements	BTMEC604D				√	√
	Sem VI	Solar Energy	BTMEC606B				√	√
	Sem VI	Technical Project for Community Services	BTMEM611				√	√
	Sem VI	Design of Machine Elements II:	BSH351			√		
	Sem VI	Materials and Metallurgy:	BSH352			√		
	Sem VI	Internal Combustion Engines:	BSH353			√		
	Sem VI	Industrial Management (All)	BSH354			√		
	Sem VI	Project I	MED375			√		
	Sem-VI	Design OF Machine Elements-II	MED351	√	√			
	Sem VI	Heat Transfer	MED352	√	√			
	Sem VI	Industrial Hydraulics and Pneumatics	MED353	√	√			
	Sem VI	Tool Engineering	MED354	√	√			
	Sem VI	CAD/ CAM/ CAE	MED355	√	√			
	Sem VI	Mechanical Measurements	MED356	√	√			
<b>B.E.</b>	Sem VII	Mechatronics	BTMEC701				√	√
	Sem VII	CAD/CAM	BTMEC702				√	√
	Sem VII	Manufacturing Processes - III	BTMEC703				√	√
	Sem VII	Fluid Machinery	BTMEC704A				√	√
	Sem VII	Industrial Engineering and Management	BTMEC704B				√	√
	Sem VII	Finite Element Method	BTMEC704C				√	√
	Sem VII	Surface Engineering	BTMEC704D				√	√
	Sem VII	Refrigeration and Air Conditioning	BTMEC704E				√	√
	Sem VII	Automobile Design (Product Design, PLM, CAE, Catia)	BTAM704C				√	√
	Sem VII	Wind Energy	BTMEC705C				√	√
	Sem VII	Seminar	BTMES709				√	√
	Sem VII	Field Training /Internship/Industrial Training III	BTMEF710				√	√
	Sem VII	Project Stage-I**	BTMEP711				√	√
	Sem VII	Seminar		√	√	√		
	Sem VII	Project-I		√	√	√		
	Sem VII	I. C. Engine	MED401	√	√	√	√	√



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	Sem VII	Automatic Control System	MED402	√	√	√	√	√
	Sem VII	Metrology and Quality Control	MED403	√	√	√	√	√
	Sem VII	Turbo Machines	MED404	√	√	√	√	√
	Sem VII	Seminar	MED425	√	√	√	√	√
	Sem III	Project Stage-II or Internship and Project*	BTMEP803				√	√
	Sem III	Automobile Engineering	MED451	√	√	√	√	√
	Sem III	Project Management and Operation Research	MED452	√	√	√	√	√
	Sem III	Refrigeration and Air Conditioning	MED453	√	√	√	√	√
	Sem III	Lab-VI Automobile Engineering	MED471	√	√	√	√	√
	Sem III	Project-II**	MED474	√	√	√		
<b>M. E.</b>	Sem I	Advanced Optimization Techniques	MME601	√				
	Sem I	Modern Engineering Materials	MME602	√				
	Sem I	Advanced I.C. Engines	MME603	√				
	Sem I	Seminar-I	MME623	√				
	Sem-II	Advanced Machine Design	MME651	√				
	Sem-II	Advanced Manufacturing Techniques	MME652	√				
	Sem-II	Engineering Experimental Techniques	MME653	√				
	Sem-II	Elective III-Finite Elements Methods	MME691	√				
	Sem-II	Seminar-II	MME673	√				
	Sem-III	Dissertation Part-I	MME731	√				
Sem-IV	Dissertation Part-II	MME781	√					
<b>M. Tec h</b>	Sem-I	Engineering Thermodynamics	MMECH11		√	√	√	√
	Sem-I	Machining and Forming Processes	MMECH12		√	√	√	√
	Sem-I	Mechanical Vibrations	MMECH13		√	√	√	√
	Sem-I	Advanced Machine Design	MDE14A		√	√	√	√
	Sem-I	Utilization of Solar Energy	MTE14B		√	√	√	√
	Sem-I	Advanced I.C. Engines	MTE14C		√	√	√	√
	Sem-I	Additive Manufacturing	MME14D		√	√	√	√
	Sem-I	Manufacturing Planning and Control	MMECH15A		√	√	√	√
	Sem-I	Hydraulic, Pneumatic and Fluidic Control	ME-XX15C		√	√	√	√
	Sem-I	Wind Energy	MTE15D		√	√	√	√
	Sem-I	Finite Element Method	MME15E		√	√	√	√
	Sem-II	Advanced Fluid Mechanics and Heat Transfer	MMECH21		√	√	√	√
	Sem-II	Mechanical Design Analysis	MMECH22		√	√	√	√
	Sem-II	CAD- CAE	ME-XX23B		√	√	√	√
	Sem-II	Computational Fluid Dynamics	MTE23B		√	√	√	√
Sem-II	Advanced Refrigeration	MTE23C		√	√	√	√	



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	Sem-II	Design of Heat Exchangers	MTE23D		√	√	√	√
	Sem-II	Alternative Fuels for I.C. Engines	MTE23E		√	√	√	√
	Sem-II	Steam and Gas Turbines	MTE24A		√	√	√	√
	Sem-II	Surface Engineering	MME24B		√	√	√	√
	Sem-II	Cryogenic Engineering	MTE24B		√	√	√	√
	Sem-II	Seminar	MMECH26		√	√	√	√
	Sem-II	Mini Project	MMECH27		√	√	√	√
			<b>Total</b>	<b>33</b>	<b>33</b>	<b>29</b>	<b>30</b>	<b>32</b>
<b>F.E</b>	Sem-I	Research Methodology	MAN404			√	√	√
	Sem-I	IT for Managers	MANB407			√	√	√
	Sem-I	Yoga	MANB408			√	√	√
	Sem-I	Community Service	MANB451			√	√	√
	Sem-I	Mini Project	MANB452	√	√	√	√	√
	Sem-I	Research Methodology	MANB405	√	√			
	Sem-I	Accounting for Managers	MANB406	√	√			
	Sem-I	project	MANB451	√	√			
<b>S.E</b>	Sem-II	Human Resource Management	MANB410	√	√	√	√	√
	Sem-II	Financial Management	MANB411	√	√	√	√	√
	Sem-II	Marketing Management	MANB412	√	√	√	√	√
	Sem-II	Production and Operation Management	MANB413	√	√	√	√	√
	Sem-II	Creativity and Innovation	MANB416			√	√	√
	Sem-III	In plant Training Report	MANB551	√	√	√	√	√
	Sem-III	Corporate Taxation	MANB503F			√	√	√
	Sem-III	Financial Services	MANB506F			√	√	√
	Sem-III	Consumer Behaviour	MANB501M			√	√	√
	Sem-III	Advertising Management	MANB502M			√	√	√
	Sem-III	Sales & CRM	MANB505M			√	√	√
	Sem-III	Digital Marketing	MANB506M			√	√	√
	Sem-III	Training and Development	MANB503H			√	√	√
	Sem-III	Performance & Compensation Management	MANB504H			√	√	√
	Sem-III	Purchasing and Materials Management	MANB502P			√	√	√
	Sem-III	Logistics Management	MANB505P			√	√	√
	Sem-III	System Analysis and Design	MANB502I			√	√	√
	Sem-III	Database Management System	MANB503I			√	√	√
	Sem-III	Project Planning, Analysis and Mgt.	MANB521F	√	√			
	Sem-III	Consumer Behaviour	MANB521M	√	√			
	Sem-III	Advertising Management	MANB522M	√	√			
	Sem-III	Industrial Marketing	MANB523M	√	√			
	Sem-III	Sales & Distribution Mgt.	MANB525M	√	√			
	Sem-III	Training and Development	MANB523H	√	√			
	Sem-III	Performance Management	MANB524H	√	√			



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	Sem-IV	Entrepreneurship Development	MANB509			√	√	√
	Sem-IV	Major Project	MANB552	√	√	√	√	√
	Sem-IV	Entrepreneurship & Project Mgt.	MANB503	√	√			
			<b>Total</b>	<b>18</b>	<b>18</b>	<b>25</b>	<b>25</b>	<b>25</b>
<b>S.E.</b>	Sem-III	Field Training / Internship/Industrial Training Evaluations	BTCOF311			√	√	√
	Sem-IV	Field Training / Internship/Industrial Training (minimum 4 weeks which can be completed partially in first semester and second Semester or in at one time.)	BTCOF411			√	√	√
<b>T.E.</b>	Sem-V	Lab 4: Software Development Lab-I (ASP.NET using C#)	CSE326			√		
	Sem-V	Seminar	BTCOS509				√	√
	Sem-V	Internship/Industrial Training	BTCOF411				√	√
	Sem-V	LAB-IV Software Development Lab-I (Windows net Framework & C# programming)	CSE324	√	√			
	Sem-VI	Lab 9 SDL-II (Android)	CSE377			√		
	Sem-VI	LAB-IX SDL-II (Mobile Application Development Lab)	CSE375	√	√			
	Sem-VI	Filed Training/Internship/ industrial Training	BTCOF609				√	√
<b>B.E.</b>	Sem-VII	Full Stack Development (LAMP / MEAN)	BTCOL705					√
	Sem-VII	Project phase - I	BTCOP709					√
	Sem-VII	Field Training / Internship / Industrial Training	BTCOF609					√
	Sem-VII	Project Part-I	CSE427				√	
	Sem-VII	Project Part-I	CSE425	√	√	√		
	Sem-VII	Seminar	CSE426	√	√	√		
	Sem-VII	Seminar	CSE428				√	√
	Sem-VIII	Project phase - II (In-house) \$ / Internship and project in the Industry	BTCOE803					√
	Sem-VIII	Project Part-II	CSE478				√	√
	Sem-VIII	Project Part-II	CSE475	√	√	√		
<b>M.E.</b>	Sem-I	Seminar	CSIT108	√				
	Sem-II	Mini Project	CSIT208	√				
	Sem-III	Dissertation (Part-I)	CSIT301	√				
	Sem-IV	Dissertation (Part-II)	CSIT401	√				
<b>M.Tec</b>	Sem-I	Software Lab I	MTCE1107		√	√	√	√





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<b>h</b>									
	Sem-II	Software Lab II	MTCE1207		√	√	√	√	
	Sem-II	Seminar I	MT CE1208		√	√	√	√	
	Sem-III	Project- I	MTCE2103		√	√	√	√	
	Sem-IV	Project-II	MTCE2201		√	√	√	√	
			<b>Total</b>	<b>9</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>14</b>	
S. E.	Sem III	Electronics workshop	BTEXW311				√		
S. E	Sem III	Field training/ Internship/Industrial training evaluation	BTES211P				√		
S. E	Sem IV	Product design Engineering	BTID405				√		
S. E	Sem IV	Field training/ Internship/Industrial training evaluation	BTEXF412				√		
S. E	Sem – I	Lab 5 : Electronic workshop - I	ETC225	√	√	√			
T.E.	Sem -V	Mini project	BTETP510				√	√	
T.E.	Sem -V	Field training/ Internship/Industrial training evaluation	BTEXF412				√	√	
T.E.	Sem – VI	Mini project I	ETC375			√			
T.E.	Part 2	Lab 4- Electronic system design	EXD 374	√	√				
B.T ech	Sem-VII	Field training/ Internship/Industrial training evaluation	BTETF611						√
B.T ech	Sem-VIII	Project part – II or Internship	BTMEP803						√
BE	Sem – VII	Project Part – I	ETC 428				√		
BE	Sem – VIII	Project Part – II	ETC 477				√		
BE	Sem –I	Lab – 7 - Project – I	EXD 427	√	√	√			
BE	Sem –II	Lab – 6 - Project – II	EXD 476	√	√	√			
M.T ech	Sem-I	PG Lab – I	MTETL107		√	√	√	√	
M.T ech	Sem-II	Mini project	MTETP207		√	√	√	√	
M.T ech	Sem-III	Project – I	MTETP302		√	√	√	√	
M.T ech	Sem-IV	Project - II	MTETP401		√	√	√	√	
ME	Sem-I	System Lab - I	MET622	√					
ME	Sem-II	System Lab - II	MET672	√					
ME	Sem-III	Dissertation Phase - I	MET731	√					
ME	Sem-IV	Dissertation Phase - II	MET781	√					
			<b>Total</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>12</b>	<b>12</b>	
<b>Cla ss</b>	<b>Semeste r</b>	<b>Subjects</b>	<b>Course Code</b>	<b>16</b>	<b>17\</b>	<b>18</b>	<b>19</b>	<b>20</b>	
				-	-	-	-	-	



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				17	18	19	20	21
S. E	Sem III	Building Construction	BTCVC305			√	√	√
S. E	Sem III	Engineering Geology	BTCVC306			√	√	√
S. E	Sem III	Seminar on Topic of field visit to foundation work	BTCVS311			√	√	√
S. E	Sem III	Field training/ Internship/Industrial training evaluation	BTCVF312			√	√	√
S. E	Sem – IV	Product design engineering	BTID405			√	√	√
S. E	Sem – IV	Engineering management	BTCVC406			√	√	√
S. E	Sem – IV	Mini project	BTCVM410			√	√	√
S. E	Sem – IV	Seminar on Topic of field visit to works involving superstructure construction	BTCVF411			√	√	√
S. E	Sem – IV	Planning for sustainable development	BTCVE404B			√	√	√
T. E	Sem – V	Design of Steel structures	BTCVC501			√	√	√
T. E	Sem – V	Environmental Engineering	BTCVC504			√	√	√
T. E	Sem -V	Transportation Engineering	BTCVC505			√	√	√
T. E	Sem -V	Seminar on Topic of field visit to works related to Building services	BTCVS511			√	√	√
T. E	Sem -V	Materials, Testing & Evaluation	BTCVE506A			√	√	√
T. E	Sem -V	Computer aided drawing	BTCVE506B			√	√	√
T. E	Sem -V	Development engineering	BTCVE506C			√	√	√
T. E	Sem -V	Business communication & presentation skills	BTCVE506D			√	√	√
T. E	Sem -I	Design of structures - I	CED302				√	√
T. E	Sem -I	Building planning & Design	CED303				√	√
T. E	Sem -I	Engineering Geology	CED304				√	√
T. E	Sem -I	Highway engineering	CED305				√	√
T. E	Sem -I	Lab III : Communication skills II	CED331				√	√
T. E	Sem -II	Design of structures – II	CED306				√	√
T. E	Sem -II	Geotechnical engineering	CED308				√	√
T. E	Sem -II	Water resources engineering – I	CED309				√	√
T. E	Sem -II	Lab IV : Structural design & drawing	CED332				√	√
T. E	Sem -II	Computer Lab -III	CED333				√	√
B.T ech	Sem-VII	Design of Concrete Structures - II	BTCVC701					√
B.T ech	Sem-VII	Limit State Design of Steel Structures	BTCVE705D					√
B.T ech	Sem-VII	Field Training /Internship/Industrial	BTCVT709					√
B.T ech	Sem-VII	Seminar	BTCVS710					√
B.T ech	Sem-VII	Project Stage-I	BTCVP711					√
B.T	Sem-III	Characterization of Construction	BTCVSS801					√





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ech		Materials	A					
B.T ech	Sem- III	Geosynthetics and Reinforced Soil Structures	BTCVSS801B					√
B.T ech	Sem- III	Higher Surveying	BTCVSS801C					√
B.T ech	Sem- III	Maintenance and Repair of Concrete Structures	BTCVSS801D					√
B.T ech	Sem- III	Environmental Remediation of Contaminated Sites	BTCESS802B					√
B.T ech	Sem- III	In-house Project or Internship and Project in Industry*	BTCEP803					√
ME	Sem-I	Communication Skills	CVSE104	√	√	√	√	√
ME	Sem-I	PG Lab-I	CVSE-L01	√	√	√	√	√
ME	Sem-I	Design of Bridges	CVSE-E1-01	√	√	√	√	√
ME	Sem-I	Design of Masonry Structures	CVSE-E2-02	√	√	√	√	√
ME	Sem-I	Advanced Pre-stressed Concrete	CVSE-E2-01	√	√	√	√	√
ME	Sem-II	Seminar-I	CVSE-S01	√	√	√	√	√
ME	Sem-II	Design of Cold Formed Steel Structures	CVSE-E3-01	√	√	√	√	√
ME	Sem-II	Structural Health Monitoring	CVSE-E3-02	√	√	√	√	√
ME	Sem-II	Retrofitting of Structures	CVSE-E3-03	√	√	√	√	√
ME	Sem-II	Design of Tall Buildings	CVSE-E4-01	√	√	√	√	√
ME	Sem-II	Earthquake Engineering & Design of Earthquake Resistant Structures	CVSE-E4-02	√	√	√	√	√
ME	Sem-II	Structural Audits	CVSE-E4-03	√	√	√	√	√
ME	Sem-III	Project Management and Intellectual Property Rights (Self Study)*	CVSE301	√	√	√	√	√
ME	Sem-III	Project Stage -I	CVSEPS1	√	√	√	√	√
ME	Sem-IV	Project Stage-II	CVSEPS2	√	√	√	√	√
BE	Sem-I	Environmental Engineering	CED 401		√	√		
BE	Sem-I	Water Resources Engineering	CED 402		√	√		
BE	Sem-I	Design of Structures III	CED 403		√	√		
BE	Sem-I	Lab 5: Seminar	CED 424		√	√		
BE	Sem-I	Lab 6: Project I	CED 425		√	√		
BE	Sem-II	Structural Mechanics	CED 451		√	√		
BE	Sem-II	Construction Management	CED 452		√	√		
BE	Sem-II	Transportation Engineering	CED 453		√	√		
BE	Sem-II	Lab 10: Project II	CED 424		√	√		
BE	Sem-II	Plumbing Engineering			√	√		
BE	Sem-II	Pavement Design			√	√		
BE	Sem-II	Industrial Waste Treatment			√	√		
TE	Sem-I	Design of Steel Structures	CED301		√			
TE	Sem-I	Water Resources Engineering -I	CED302		√			
TE	Sem-I	Environmental Engineering -I	CED303		√			
TE	Sem-I	Mini-Project	CED325		√			
TE	Sem-II	Design of RCC Structures	CED351		√			
TE	Sem-II	Environmental Engineering -II	CED352		√			
TE	Sem-II	Water Resource Engineering - II	CED353		√			



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TE	Sem-II	Transportation Engineering - I	CED356			√		
TE	Sem-II	Project-I Presentation	CED374			√		
SE	Sem-I	Fluid Mechanics-I	CED203		√			
SE	Sem-I	Surveying-I	CED204		√			
SE	Sem-I	Concrete Technology	CED205		√			
SE	Sem-II	Building Construction And Drawing	CED253		√			
SE	Sem-II	Fluid Mechanics-II	CED254		√			
SE	Sem-II	Surveying-II	CED255		√			
TE	Sem-I	Theory of structures – II	CED301	√	√			
TE	Sem-I	Design of structures – I	CED302	√	√			
TE	Sem-I	Building planning & design	CED303	√	√			
TE	Sem-I	Engineering Geology	CED304	√	√			
TE	Sem-I	Transportation Engineering – I	CED305	√	√			
TE	Sem-I	Advanced Surveying	CED306	√	√			
TE	Sem-II	Design of structures –II	CED351	√	√			
TE	Sem-II	Environmental Engineering –I	CED352	√	√			
TE	Sem-II	Geotechnical Engineering	CED353	√	√			
TE	Sem-II	Water resource engineering	CED354	√	√			
TE	Sem-II	Transportation Engineering - II	CED355	√	√			
BE	Sem-I	Environmental Engineering – II	CED401	√	√			
BE	Sem-I	Water resource engineering – II	CED402	√	√			
BE	Sem-I	Design of structures – III	CED403	√	√			
BE	Sem-I	Lab V : Project - I	CED425	√	√			
BE	Sem-II	Construction management	CED452	√	√			
BE	Sem-II	Lab IX : Seminar	CED474	√	√			
BE	Sem-II	Lab X : Project II	CED475	√	√			
SE	Sem-I	Fluid Mechanics-I	CED203	√				
SE	Sem-I	Surveying-I	CED204	√				
SE	Sem-I	Concrete Technology	CED205	√				
SE	Sem-II	Building Construction & Drawing	CED253	√				
SE	Sem-II	Fluid Mechanics-II	CED254	√				
SE	Sem-II	Surveying-II	CED255	√				
SE	Sem-II	Theory of Structure	CED256	√				
ME	Sem-I	Advanced Concrete Technology	MSE603	√				
ME	Sem-I	Seminar -I	MSE623	√				
ME	Sem-II	Seminar -II	MWE673	√				
ME	Sem-III	Dissertation– I	MSE721	√				
ME	Sem-IV	Dissertation– II	MSE771	√				
			<b>Total</b>	<b>29</b>	<b>28</b>	<b>33</b>	<b>34</b>	<b>34</b>
SE	Sem-I	Measurement and Instrumentation	BTEEC304			√	√	√
SE	Sem-I	Electrical workshop/ Mini project	BTEEM309			√	√	√
SE	Sem-I	Field Training/ Internship/ Industrial Training Evaluation	BTEEF310			√	√	√
SE	Sem-II	Electrical Machine-I	BTEEC401			√	√	√
SE	Sem-II	Power System-I	BTEEC402			√	√	√



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SE	Sem-II	Product Design Engineering	BTID405			√	√	√
SE	Sem-II	Analog and Digital electronics	BTEEE-406B			√	√	√
SE	Sem-II	Industrial safety	BTEEOE407-A			√	√	√
SE	Sem-II	Introduction to Non-Conventional energy sources	BTEEOE407-B			√	√	√
SE	Sem-I	Electrical measuring techniques	EED/203	√	√			
SE	Sem-I	Electrical power generation & its economics	EED/204	√	√			
SE	Sem-I	Electrical engineering materials	EED/205	√	√			
SE	Sem-II	AC Machines	EED/253	√	√			
TE	Sem-I	Electrical Machine-II	BTEEC501				√	√
TE	Sem-I	Power System-II	BTEEC502				√	√
TE	Sem-I	Industrial training	BTEEF510				√	√
TE	Sem-I	Testing and Maintenance of Electrical equipmen	BTEEE505				√	√
TE	Sem-I	Power Plant Engineering	BTEEOE506				√	√
TE	Sem-II	Principles of Electrical Machine Design	BTEEC602				√	√
TE	Sem-II	Industrial automation and Contro	BTEEE604				√	√
TE	Sem-II	Switch Gear and Protection	BTEEC605				√	√
TE	Sem-II	Project Management	BTEEOE606				√	√
TE	Sem-I	Power System Analysis	EEP/301			√		
TE	Sem-I	Special Purpose Electrical Machines	EEP/305			√		
TE	Sem-II	Electrical Machine Design	EEP/351			√		
TE	Sem-II	Testing and Maintenance of electrical equipments	EEP/352			√		
TE	Sem-II	Power Electronics – I	EEP/353			√		
TE	Sem-II	Energy conservation and Audit	EEP/355			√		
TE	Sem-I	Power system analysis	EEP/301	√	√			
TE	Sem-I	Special Purpose Electrical Machines	EEP/302	√	√			
TE	Sem-I	Electromagnetic fields	EEP/303	√	√			
TE	Sem-II	Electrical machine design	EEP/351	√	√			
TE	Sem-II	Energy conservation & Audit	EEP/352	√	√			
TE	Sem-II	Power Electronics	EEP/353	√	√			
TE	Sem-II	Testing & Maintenance of electrical equipment	EEP/354	√	√			
TE	Sem-II	Seminar	EEP/376	√	√			
BE	Sem-I	Power system protection	EEP/402	√	√	√		
BE	Sem-I	Digital signal processing	EEP/403	√	√	√		
BE	Sem-I	Industrial automation	EEP/404	√	√	√		
BE	Sem-I	Industrial management	EEP/441	√	√	√		
BE	Sem-I	Flexible AC transmission system	EEP/443	√	√	√		
BE	Sem-I	Power electronics –II	EEP/444	√	√	√		
BE	Sem-I	Recent trends in power system	EEP/445	√	√	√		
BE	Sem-I	Project part –I	EEP/426	√	√	√		
BE	Sem-II	High voltage Engineering	EEP/451	√	√	√		



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BE	Sem-II	Power system operation & control	EEP/452	√	√	√		
BE	Sem-II	Renewable energy	EEP/453	√	√	√		
BE	Sem-II	Electric traction & utilization	EEP/492	√	√	√		
BE	Sem-II	Electrical system planning & design	EEP/493	√	√	√		
BE	Sem-II	Illumination engineering	EEP/494	√	√	√		
BE	Sem-II	Project part -II	EEP/475	√	√	√		
BE	Sem-I	Electrical drives	EEP/401	√	√	√	√	
BE	Sem-I	Power system protection	EEP/402	√	√	√	√	
BE	Sem-I	Industrial automation	EEP/404	√	√	√	√	
BE	Sem-I	Flexible AC transmission system	EEP/441	√	√	√	√	
BE	Sem-I	Power electronics II	EEP/442	√	√	√	√	
BE	Sem-I	Electric traction & utilization	EEP/443	√	√	√	√	
BE	Sem-I	Project part -I	EEP/426	√	√	√	√	
BE	Sem-I	High voltage engineering	EEP/451	√	√	√	√	
BE	Sem-I	Power system operation & control	EEP/452	√	√	√	√	
BE	Sem-I	Project part -II	EEP/475	√	√	√	√	
BE	Sem-I	Electrical power quality	EEP/491	√	√	√	√	
BE	Sem-I	Electrical system planning & design	EEP/492	√	√	√	√	
BE	Sem-VII	Power System Operation & Control	BTEEC701					√
BE	Sem-VII	High Voltage Engineering	BTEEC702					√
BE	Sem-VII	Electrical Drives	BTEEC703					√
BE	Sem-VII	Project Part-I	BTEEP710					√
BE	Sem-VII	Special Purpose Electrical Machines	BTEEE704					√
BE	Sem-VII	Electrical Traction and Utilization	BTEEE704					√
BE	Sem-VII	Energy Audit and Conservation	BTEEE705					√
BE	Sem-VII	Electrical Power Quality	BTEEE705					√
BE	Sem-VII	HVDC Transmission and FACTS	BTEEE705					√
BE	Sem-VIII	Project - II	BTEEP803					√
			<b>Total</b>	<b>22</b>	<b>22</b>	<b>25</b>	<b>22</b>	<b>22</b>

## 2. Average percentage of courses that include experiential learning

Average percentage of courses that include experiential learning through project work/field work/ internship is given in table below.

### Details of Subject having Experiential Learning

Average parentage of courses that include experimental learning						
	16-17	17-18	18-19	19-20	20-21	
First Year Engineering	2	1	3	3	2	Avg. % for last 5 years
Mechanical Engineering	33	33	29	30	32	
Computer Science & Engineering	9	8	10	11	14	
Electronics and Telecommunication Engineering	8	8	8	12	12	
Civil Engineering	29	28	33	34	34	
Electrical engineering department	22	22	25	22	22	
MBA	18	18	25	25	25	
<b>Total Courses that include EL</b>	<b>121</b>	<b>118</b>	<b>113</b>	<b>137</b>	<b>141</b>	
<b>Total No of courses</b>	<b>265</b>	<b>281</b>	<b>309</b>	<b>319</b>	<b>311</b>	<b>1485</b>
<b>Average % of courses that includes experimental learning</b>	<b>45.66</b>	<b>41.99</b>	<b>36.56</b>	<b>42.94</b>	<b>45.33</b>	<b>43.77</b>

Table 1.3.2: Average parentage of courses that include experimental learning

### 3. Graph of Average percentage of courses that include experiential learning

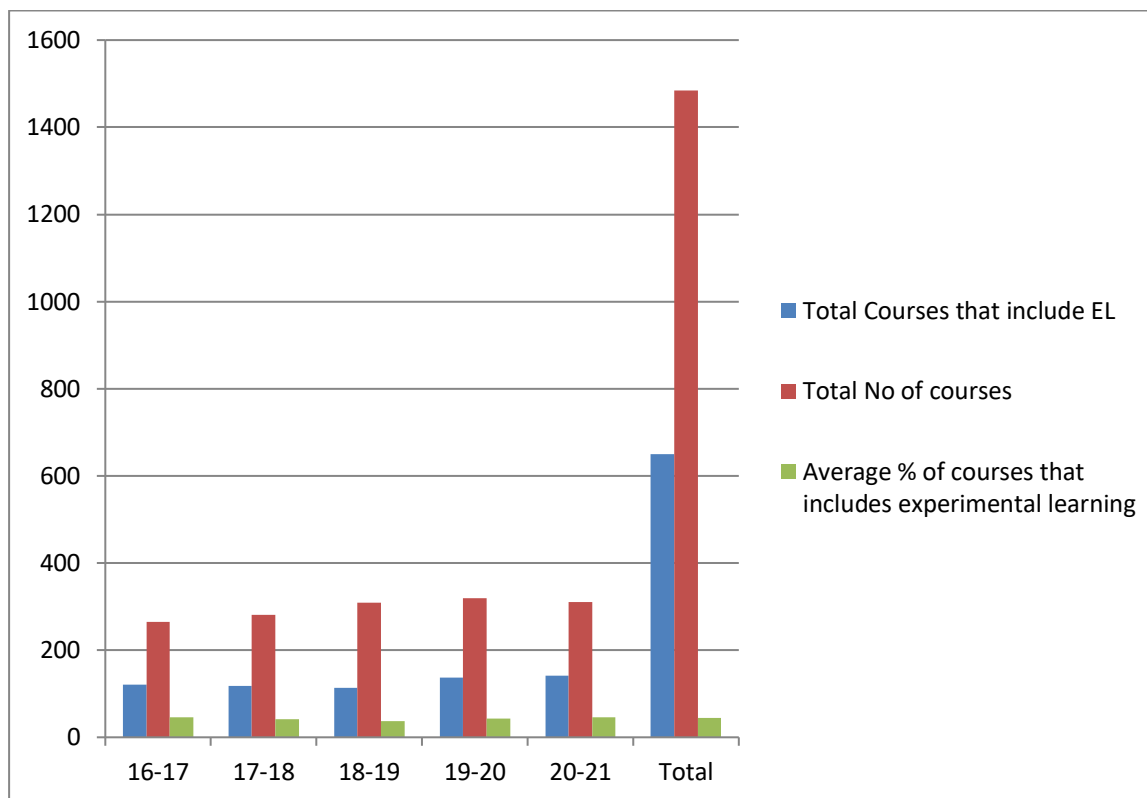


Fig. 1.3.2: Graph of Average percentage of courses that include experiential learning

### 4. MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship

[https://sycet.org/naac/Criteria\\_1/1.3.2/1.3.2-MOUS.pdf](https://sycet.org/naac/Criteria_1/1.3.2/1.3.2-MOUS.pdf)