



Symbiosis Institute of Technology, Pune
Bachelor of Technology (Mechanical Engineering)
Programme Structure 2020-24

1. OBJECTIVE	<p>B.Tech is a full-time four year graduation programme, which aims at transforming a student into a technically sound professional. The syllabus contains courses on basic sciences, technical arts, humanities & liberal arts and professional courses. The mix of these courses has been evolved with an aim to produce professionals who have knowledge not only of Engineering but who are good managers to contribute in a cross-functional team and have human values.</p> <p>Being a professional programme it ensures a healthy balance between theoretical foundation and practical exposure to the present day world.</p> <p>The emphasis is to develop all round personality that would enable the students to take up the challenges of the corporate world and also become responsible citizens of the society.</p>			
2. DURATION (IN MONTHS)	48 (Full Time)			
3. INTAKE	120			
4. RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)
		15	7.5	3
	II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)		b) International Students (In Percentage)
		2		15
5. ELIGIBILITY	<p>Passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of Chemistry/ Biotechnology/ Biology/ Technical Vocational subjects. Obtained at least 45% marks or equivalent grade (40% marks or equivalent grade for Scheduled Caste /Scheduled Tribes) in the above subjects taken together.</p> <p>B. Tech (Lateral entry to second year) :</p> <p>a) Passed Diploma examination from an AICTE approved Institution; with at least 45% marks or equivalent grade (40% marks or equivalent grade for Scheduled Caste /Scheduled Tribes) in appropriate branch of Engineering / Technology.</p> <p>b) Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks or equivalent grade (40% marks or equivalent grade for Scheduled Caste /Scheduled Tribes) and passed XII standard with mathematics as a subject.</p> <p>c) Provided that in case of students belonging to B. Sc. Stream, shall clear the subjects of Engineering Graphics / Engineering Drawing and Engineering Mechanics of the first year Engineering program along with the second year subjects.</p> <p>d) Provided further that, the students belonging to B. Sc. Stream shall be considered only after filling the supernumerary seats in this category with students belonging to the Diploma stream.</p> <p>e) Provided further that students, who have passed Diploma in Engineering and Technology from an AICTE approved Institution or B. Sc. Degree from a recognized University as defined by UGC, shall also be eligible for admission to</p>			



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		the first year Engineering Degree courses subject to vacancies in the first year class in case the vacancies at lateral entry are exhausted. However the admissions shall be based strictly on the eligibility criteria as mentioned in a, b, c, and d above.			
6.	SELECTION PROCEDURE	Merit list by a valid score of Symbiosis Entrance Test (SIT EEE) or Joint Entrance Examination (JEE - Mains) or All States Engineering Entrance Test.			
7.	MEDIUM OF INSTRUCTION	English			
8.	PROGRAMME PATTERN	Semester			
9.	COURSE & SPECIALIZATION	As per Annexure A Students can pursue additional specialization in the following areas by completing 20 credits specified in the program structure of that specialization beyond the minimum requirement for the award of degree. 1) CAD/CAM 2) Mechatronics and Manufacturing Automation (Industry 4.0) 3) Design of Heat Exchanger 4) Automobile Engineering			
10.	FEE		Academic Fee p.a	Institute Deposit	Total
		Indian Students	260000	20000	280000
		International Students (USD equivalent to INR)	390000	20000	410000
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 40% internal component and 60% component as external [University] examination. The internal and external will be separate heads of passing.			
12.	STANDARD OF PASSING	The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.			
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Bachelor of Technology (Mechanical Engineering) will be awarded at the end of semester VIII examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.			

14. NATURE WISE DISTRIBUTION OF CREDITS							
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	20	0	0	0	0	0	20
2	20	0	0	0	0	0	20
3	21	2	0	0	0	2*	23
4	23	1	0	0	0	0	24
5	17	7	0	0	0	0	24
6	12	13	0	0	0	0	25
7	12	8	0	0	0	0	20
8	14	0	0	0	0	0	14
Total	139	31	0	0	0	0	170
Optional Additional Courses							
Total	0	0	20	0	0	0	20
Grand Total							190

* Satisfactory completion of the non letter grade courses 'Integrated Disaster Management' and 'Fitness for Life' is mandatory for the award of degree.

Note: For additional specializations (optional) as applicable, fees of Rs.25000/- will be charged, additionally in the third year

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

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Celebrating 50 Years of Excellence

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Annexure A

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Practical		Examination Scheme Marks		Total Credits	Total
				L	T	La b	CA	ESE	CA	ESE		
Semester : 1												
Generic Core Courses												
TE7168	0701250101	Engineering Mathematics -I	BS	3	1	0	0	0	40	60	4	100
T7381	0701250102	Chemistry	BS	3	0	0	0	0	30	45	3	75
T7382	0701250103	Chemistry Lab	BS	0	0	2	10	15	0	0	1	25
T7540	0701250104	Basic Electrical and Electronics Engineering	ES	3	0	0	0	0	30	45	3	75
T7593	0701250105	Basic Electrical and Electronics Engineering Lab	ES	0	0	2	10	15	0	0	1	25
T7925	0701250106	Engineering Graphics Lab	ES	0	0	4	20	30	0	0	2	50
TE7286	0701250107	Programming and Problem Solving	ES	2	0	0	0	0	20	30	2	50
TE7287	0701250108	Programming and Problem Solving Lab	ES	0	0	2	10	15	0	0	1	25
T6732	0701250109	Critical Thinking	HS	1	0	0	0	0	25	0	1	25
TE7188	0701250110	Environmental Science	MC	2	0	0	0	0	20	30	2	50
Total				14	1	10	50	75	165	210	20	500
Semester : 2												
Generic Core Courses												
TE7169	0701250201	Engineering Mathematics -II	BS	3	1	0	0	0	40	60	4	100
T7391	0701250202	Physics	BS	3	0	0	0	0	30	45	3	75
T7392	0701250203	Physics lab	BS	0	0	2	10	15	0	0	1	25
T7383	0701250204	Communication Skills	HS	2	0	0	0	0	20	30	2	50
T7384	0701250205	Communication skills lab	HS	0	0	2	10	15	0	0	1	25
T7414	0701250206	Engineering Mechanics	ES	3	0	0	0	0	30	45	3	75
T7658	0701250207	Workshop Practice	ES	0	0	4	20	30	0	0	2	50
TE7300	0701250208	Tinker Lab	ES	0	0	4	50	0	0	0	2	50
TE7396	0701250209	Software Tools	ES	0	0	2	25	0	0	0	1	25
T6773	0701250210	Creative Thinking	HS	1	0	0	0	0	25	0	1	25
Total				12	1	14	115	60	145	180	20	500
Semester : 3												
Generic Core Courses												
TE7170	0701250301	Engineering Mathematics-III	BS	2	1	0	0	0	30	45	3	75
TE7390	0701250302	Strength of Materials	PC	3	0	0	0	0	30	45	3	75
T7652	0701250303	Strength of Materials Lab	PC	0	0	2	10	15	0	0	1	25
TE7367	0701250304	Engineering Materials and Metallurgy	PC	3	0	0	0	0	30	45	3	75
T7635	0701250305	Measurement and Metrology	PC	3	0	0	0	0	75	0	3	75



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Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Practical		Examination Scheme Marks		Total Credits	Total
				L	T	Lab	CA	ESE	CA	ESE		
T7636	0701250306	Measurement and Metrology Lab	PC	0	0	2	10	15	0	0	1	25
TE7368	0701250307	Engineering Thermodynamics	PC	2	0	0	0	0	20	30	2	50
T7940	0701250308	Engineering Thermodynamics Lab	PC	0	0	2	10	15	0	0	1	25
TE7370	0701250309	Fluid Mechanics	PC	3	0	0	0	0	75	0	3	75
T7615	0701250310	Fluid Mechanics Lab	PC	0	0	2	10	15	0	0	1	25
T4005	0701250311	Integrated Disaster Management *		0	0	0	0	0	0	0	Non Letter Grade	0
TH4095	0701250312	Fitness for Life *		0	0	0	0	0	0	0	Non Letter Grade	0
Total				16	1	8	40	60	260	165	21	525
Generic Elective Courses Group												
T6184	0701250313	Basic German I	OE	2	0	0	0	0	50	0	2	50
T6186	0701250314	Basic French I	OE	2	0	0	0	0	50	0	2	50
T6188	0701250315	Basic Spanish I	OE	2	0	0	0	0	50	0	2	50
Total Required Credits							0	0	50	0	2	50
Semester : 4												
Generic Core Courses												
T8000	0701250401	Service Learning	HS	0	0	8	100	0	0	0	4	100
T7960	0701250402	Statistics, Probability and Numerical Methods	BS	3	0	0	0	0	30	45	3	75
T7961	0701250403	Statistics, Probability and Numerical Methods lab	BS	0	0	2	10	15	0	0	1	25
T7632	0701250404	Manufacturing Technology	PC	3	0	0	0	0	30	45	3	75
T7633	0701250405	Manufacturing Technology Lab	PC	0	0	2	10	15	0	0	1	25
TE7372	0701250406	Heat Transfer	PC	3	0	0	0	0	30	45	3	75
T7619	0701250407	Heat Transfer Lab	PC	0	0	2	10	15	0	0	1	25
T7700	0701250408	Theory of Machines - I	PC	3	0	0	0	0	75	0	3	75
T7656	0701250409	Theory of Machines-I Lab	PC	0	0	2	10	15	0	0	1	25
F0002	0701250410	Flexi-Credit Course	PC	2	0	0	0	0	50	0	2	50
T2646	0701250411	Entrepreneurship Venture	HS	1	0	0	0	0	25	0	1	25
Total				15	0	16	140	60	240	135	23	575
Generic Elective Courses Group												
T6761	0701250412	Foundation of Ethics	OE	1	0	0	0	0	25	0	1	25



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				L	T	La b	CA	ESE	CA	ESE		
T6760	0701250413	Introduction to Indian Philosophy	OE	1	0	0	0	0	25	0	1	25
Total Required Credits							0	0	25	0	1	25
Semester : 5												
Generic Core Courses												
T7620	0701250501	I.C. Engines	PC	3	0	0	0	0	30	45	3	75
T7621	0701250502	I.C. Engines Lab	PC	0	0	2	10	15	0	0	1	25
T7625	0701250503	Machine Design - I	PC	3	0	0	0	0	75	0	3	75
F0003	0701250504	Flexi-Credit Course	PC	3	0	0	0	0	75	0	3	75
F0003	0701250505	Flexi-Credit Course	PC	3	0	0	0	0	75	0	3	75
TE7290	0701250506	Project Based Learning -I	PIS	0	0	4	50	0	0	0	2	50
T6749	0701250507	Design Thinking	HS	2	0	0	0	0	50	0	2	50
Total				14	0	6	60	15	305	45	17	425
Specialization Core Courses for Optional Additional Specialization : Automobile Engineering (Major)												
TE7355	0701250508	Basics of Automotive Engineering	PE	3	0	0	0	0	30	45	3	75
TE7435	0701250509	Automotive Engine and Transmission System	PE	3	0	0	0	0	30	45	3	75
Total				6	0	0	0	0	60	90	6	150
Specialization Core Courses for Optional Additional Specialization : CAD/CAM (Major)												
TE7434	0701250510	Basic and Advanced CATIA Lab	PE	0	0	6	30	45	0	0	3	75
T7125	0701250511	Computer Aided Manufacturing Lab	PE	0	0	2	10	15	0	0	1	25
TE7380	0701250512	Manufacturing Engineering	PE	1	0	0	0	0	25	0	1	25
Total				1	0	8	40	60	25	0	5	125
Specialization Core Courses for Optional Additional Specialization : Design of Heat Exchanger (Major)												
TE7352	0701250513	Advanced Fluid Mechanics	PE	3	0	0	0	0	30	45	3	75
TE7356	0701250514	Basics of Heat Exchanger	PE	3	0	0	0	0	30	45	3	75
TE7381	0701250515	Materials and Fabrication Processes for Heat Exchanger	PE	3	0	0	0	0	30	45	3	75
Total				9	0	0	0	0	90	135	9	225
Specialization Core Courses for Optional Additional Specialization : Mechatronics and Manufacturing Automation (Industry 4.0) (Major)												
F0002	0701250516	Flexi-Credit Course	PE	2	0	0	0	0	50	0	2	50
TE7389	0701250517	Sensors and Transducers Technology	PE	2	0	0	0	0	20	30	2	50
TE7364	0701250518	Digital Signal Processing	PE	1	0	0	0	0	25	0	1	25



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				L	T	La b	CA	ESE	CA	ESE		
TE7382	0701250519	Microcontrollers and Embedded Systems	PE	1	0	0	0	0	25	0	1	25
Total				6	0	0	0	0	120	30	6	150
Generic Elective Courses Group												
T7612	0701250520	Fluid Machinery	PE	3	0	0	0	0	30	45	3	75
T7647	0701250521	Production Management	PE	3	0	0	0	0	30	45	3	75
T7653	0701250522	Theory of Machines - II	PE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Generic Elective Courses Group												
T7613	0701250523	Fluid Machinery Lab	PE	0	0	2	10	15	0	0	1	25
TE7386	0701250524	Production Management Lab	PE	0	0	2	10	15	0	0	1	25
T7654	0701250525	Theory of Machines - II Lab	PE	0	0	2	10	15	0	0	1	25
Total Required Credits							10	15	0	0	1	25
Generic Elective Courses Group												
TE7359	0701250526	Composite Materials	PE	3	0	0	0	0	30	45	3	75
TE7366	0701250527	Engineering Design Optimization	PE	3	0	0	0	0	30	45	3	75
TE7373	0701250528	Industrial Fluid Power	PE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Semester : 6												
Generic Core Courses												
TE7357	0701250601	CAD & CAM	PC	3	0	0	0	0	30	45	3	75
F0002	0701250602	Flexi-Credit Course	PC	2	0	0	0	0	50	0	2	50
TE7291	0701250603	Project Based Learning-II	PIS	0	0	4	50	0	0	0	2	50
T7802	0701250604	Capstone Course	PC	2	0	0	0	0	50	0	2	50
T6774	0701250605	Principles of Economics	HS	2	0	0	0	0	50	0	2	50
T7607	0701250606	CAD& CAM Lab	PC	0	0	2	10	15	0	0	1	25
Total				9	0	6	60	15	180	45	12	300
Specialization Core Courses for Optional Additional Specialization : Automobile Engineering (Major)												
TE7375	0701250607	Instrumentation and Automotive Electronics	PE	3	0	0	0	0	30	45	3	75
TE7395	0701250608	Vehicle Dynamics and NVH	PE	3	0	0	0	0	30	45	3	75
Total				6	0	0	0	0	60	90	6	150
Specialization Core Courses for Optional Additional Specialization : CAD/CAM (Major)												
TE7362	0701250609	Computer Aided Design II Lab	PE	0	0	6	30	45	0	0	3	75



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				L	T	Lab	CA	ESE	CA	ESE		
TE7391	0701250610	Structural Dynamic Analysis Lab	PE	0	0	4	20	30	0	0	2	50
T7802	0701250611	Seminar	PIS	0	0	4	20	30	0	0	2	50
Total				0	0	14	70	105	0	0	7	175
Specialization Core Courses for Optional Additional Specialization : Design of Heat Exchanger (Major)												
TE7384	0701250612	Numerical Methods for Heat Exchanger	PE	3	0	0	0	0	30	45	3	75
TE7371	0701250613	Heat Exchanger Simulation Lab	PE	0	0	2	10	15	0	0	1	25
Total				3	0	2	10	15	30	45	4	100
Specialization Core Courses for Optional Additional Specialization : Mechatronics and Manufacturing Automation (Industry 4.0) (Major)												
TE7363	0701250614	Computer, System, Technologies For Enabling Industry 4.0	PE	3	0	0	0	0	30	45	3	75
TE7374	0701250615	Industrial Internet of Things	PE	2	0	0	0	0	20	30	2	50
TE7436	0701250616	Industrial Robotics	PE	2	0	0	0	0	20	30	2	50
Total				7	0	0	0	0	70	105	7	175
Generic Elective Courses Group												
TE7360	0701250617	Computational Fluid Dynamics	PE	3	0	0	0	0	30	45	3	75
TE7369	0701250618	Finite Element Methods	PE	3	0	0	0	0	30	45	3	75
TE7378	0701250619	Jigs and Fixtures	PE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Generic Elective Courses Group												
T7686	0701250620	Computational Fluid Dynamic Lab	PE	0	0	2	10	15	0	0	1	25
T7611	0701250621	Finite Element Methods Lab	PE	0	0	2	10	15	0	0	1	25
TE7063	0701250622	Jigs and Fixtures Lab	PE	0	0	2	10	15	0	0	1	25
Total Required Credits							10	15	0	0	1	25
Generic Elective Courses Group												
T7644	0701250623	Operations Research	PE	3	0	0	0	0	30	45	3	75
TE7379	0701250624	Machine Design II	PE	3	0	0	0	0	30	45	3	75
TE7385	0701250625	Power Plant Engineering	PE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Generic Elective Courses Group												



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				L	T	La b	CA	ESE	CA	ESE		
TE7388	0701250626	Quality Management Techniques	OE	3	0	0	0	0	30	45	3	75
TE7428	0701250627	Introduction to Image Processing	OE	3	0	0	0	0	30	45	3	75
TE7223	0701250628	Smart Urban Planning	OE	3	0	0	0	0	30	45	3	75
TE7240	0701250629	Water Resource Planning and Management	OE	3	0	0	0	0	30	45	3	75
TE7263	0701250630	Introduction to AI and Machine Learning	OE	3	0	0	0	0	30	45	3	75
TE7265	0701250631	Introduction to Data Science	OE	3	0	0	0	0	30	45	3	75
TE7319	0701250632	Electrical and Electronics Materials	OE	3	0	0	0	0	30	45	3	75
TE7335	0701250633	Introduction to Robotics	OE	3	0	0	0	0	30	45	3	75
T2618	0701250634	Project Management	OE	3	0	0	0	0	30	45	3	75
T7393	0701250635	Computer Based Statistical Packages	OE	3	0	0	0	0	30	45	3	75
T7499	0701250636	Java	OE	3	0	0	0	0	30	45	3	75
T7574	0701250637	MATLAB	OE	3	0	0	0	0	30	45	3	75
T7020	0701250638	Nanotechnology	OE	3	0	0	0	0	30	45	3	75
TE7339	0701250639	Renewable Energy Systems	OE	3	0	0	0	0	30	45	3	75
TE7351	0701250640	3D Printing and Prototyping	OE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Generic Elective Courses Group												
T7474	0701250641	Basics of Database	OE	3	0	0	0	0	30	45	3	75
T7509	0701250642	Open Source Technologies	OE	3	0	0	0	0	30	45	3	75
T7529	0701250643	Machine Learning	OE	3	0	0	0	0	30	45	3	75
T7616	0701250644	Fundamentals of Automotive Technology	OE	3	0	0	0	0	30	45	3	75
T7650	0701250645	Six sigma	OE	3	0	0	0	0	30	45	3	75
T7394	0701250646	Smart Materials	OE	3	0	0	0	0	30	45	3	75
T7584	0701250647	Printed Circuit Board (PCB) Design	OE	3	0	0	0	0	30	45	3	75
TE7171	0701250648	Introduction to Mathematical Modelling	OE	3	0	0	0	0	30	45	3	75
TE7195	0701250649	GIS Applications	OE	3	0	0	0	0	30	45	3	75
TE7204	0701250650	Intelligent Transportation Systems	OE	3	0	0	0	0	30	45	3	75
TE7338	0701250651	Principles of Modern Communication Systems	OE	3	0	0	0	0	30	45	3	75



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				L	T	La b	CA	ESE	CA	ESE		
TE7334	0701250652	Introduction to Mechatronics	OE	3	0	0	0	0	30	45	3	75
TE7264	0701250653	Introduction to BIGDATA	OE	3	0	0	0	0	30	45	3	75
TE7376	0701250654	Introduction to Operations Research	OE	3	0	0	0	0	30	45	3	75
TE7377	0701250655	Introduction to Optimisation	OE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Semester : 7												
Generic Core Courses												
T7804	0701250701	B.Tech Project	PIS	0	0	8	40	60	0	0	4	100
TE7081	0701250702	Refrigeration and Airconditioning	PC	3	0	0	0	0	30	45	3	75
T7674	0701250703	Cyber Security	ES	2	0	0	0	0	50	0	2	50
F0002	0701250704	Flexi-Credit Course	PC	2	0	0	0	0	50	0	2	50
T7649	0701250705	Refrigeration & Airconditioning Lab	PC	0	0	2	10	15	0	0	1	25
Total				7	0	10	50	75	130	45	12	300
Specialization Core Courses for Optional Additional Specialization : Automobile Engineering (Major)												
T7805	0701250706	Project	PIS	0	0	10	50	75	0	0	5	125
T7802	0701250707	Seminar	PIS	0	0	4	20	30	0	0	2	50
TE7437	0701250708	Automotive Safety	PE	1	0	0	0	0	10	15	1	25
Total				1	0	14	70	105	10	15	8	200
Specialization Core Courses for Optional Additional Specialization : CAD/CAM (Major)												
T7805	0701250706	Project	PIS	0	0	10	50	75	0	0	5	125
TE7392	0701250709	Structural Non Linear and 3D Analysis Lab	PE	0	0	6	30	45	0	0	3	75
Total				0	0	16	80	120	0	0	8	200
Specialization Core Courses for Optional Additional Specialization : Design of Heat Exchanger (Major)												
T7805	0701250706	Project	PIS	0	0	10	50	75	0	0	5	125
T7802	0701250707	Seminar	PIS	0	0	4	20	30	0	0	2	50
Total				0	0	14	70	105	0	0	7	175
Specialization Core Courses for Optional Additional Specialization : Mechatronics and Manufacturing Automation (Industry 4.0) (Major)												
T7805	0701250706	Project	PIS	0	0	10	50	75	0	0	5	125
T7802	0701250707	Seminar	PIS	0	0	4	20	30	0	0	2	50
Total				0	0	14	70	105	0	0	7	175
Generic Elective Courses Group												
T7639	0701250710	Mechanical Vibration	PE	3	0	0	0	0	30	45	3	75



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Annexure A

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Practical		Examination Scheme Marks		Total Credits	Total
				L	T	Lab	CA	ESE	CA	ESE		
T7602	0701250711	Automobile Engineering	PE	3	0	0	0	0	30	45	3	75
TE7393	0701250712	Tool Engineering	PE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Generic Elective Courses Group												
TE7383	0701250713	Nature Inspired Optimization Techniques	PE	3	0	0	0	0	30	45	3	75
T7642	0701250714	Non Conventional Energy Sources	PE	3	0	0	0	0	30	45	3	75
T7676	0701250715	Total Quality Management	PE	3	0	0	0	0	30	45	3	75
Total Required Credits							0	0	30	45	3	75
Generic Elective Courses Group												
T2573	0701250716	Organizational Behaviour	OE	2	0	0	0	0	50	0	2	50
TE7438	0701250717	History of Science and Technology	OE	2	0	0	0	0	50	0	2	50
Total Required Credits							0	0	50	0	2	50
Semester : 8												
Generic Core Courses												
T7912	0701250801	Internship	PIS	0	0	24	180	120	0	0	12	300
T7802	0701250802	Seminar	PIS	0	0	4	20	30	0	0	2	50
Total				0	0	28	200	150	0	0	14	350



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Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester1	1	19	20	500
Semester2	4	16	20	500
Semester3	8	15	23	575
Semester4	11	13	24	600
Semester5	13	11	24	600
Semester6	8	17	25	625
Semester7	6	14	20	500
Semester8	0	14	14	350
Total	51	119	170	4250