## Sardar Patel College of Engineering, Andheri (West), Mumbai

# Second Year B. Tech. Mechanical Engineering Academic Course Credit System and Evaluation Scheme REGULATION 2022

#### **NOTES:**

- (1) Laboratory course is considered as a separate head of passing
- (2) Tentatively the first two modules of the course content will be covered in T1 and third and fourth modules of the course content will be covered in T2. Any change in the same will be informed by the course instructor. The end semester examination will cover all the modules of the course content. T1 and T2 shall be of 15 points and of one hour duration each.
- (3) Assessment criteria for laboratory/Tutorial work. i.e. weightage for assessment shall be as follows: i) Attendance in Laboratory/Tutorial = 20%, (ii) Journal= 40%, (iii) Practical Examination (and/or) Mini project (and/or) Ouiz (and/or) Seminar (and/or) Oral (and/or) Industry visit report= 40%.
- (4) IE: Internal Evaluation will be carried out by course instructor for 10 points. It is the continuous evaluation throughout the semester. The evaluation will be based on minimum three of the following activities decided by course instructor. The maximum points that can be assigned to one activity will be 04. The course instructor needs to inform the students and head of the department about the activities those will be considered for IE and the points assigned to them in first week of semester. The course instructor will submit the internal evaluation points (out of 10 with activity wise break up) to examination section before the beginning of End Semester examination.
  - List of Activities: 1. Class Involvement, 2. Assignments, 3. Problem Solving, 4. Mini project 5. Quizzes 6. Presentation, or 7. Oral
- (5) Student can opt for an online course available on https://swayam.gov.in/ or https://onlinecourses.nptel.ac.in/ subject to approval from the department. After successful completion of the course, the course title can appear on the grade card of astudent.
- (6) The Mandatory courses are with Pass (P) and No Pass (NP) grades.
- (7) Department will offer Value Added courses in a semester, subject to availability of resources and enrolment of minimum 20 students opting for the course. Upon completion of the Value Added course, the course title shall appear in the grade card of the student.
- (8) Students can optionally opt for Non-Technical Value Added courses offered by Center for Continuing Education (CCE-SPCE). Upon successful completion of the course, the course title shall appear on the grade card of the student.
- (9) The contents of core courses are aligned with the latest GATE syllabus. The mapping between GATE syllabus topics and core courses is given in Table GATE-MAP.
- (10) Refer (i) Academic rules and regulations and (ii) Examination rules and regulations for further details

#### Credit System for Second Year B.Tech. in Mechanical Engineering (Semester III) Applicable for the students entering in First Year in Academic Year 2022-23 (Applicable from 2023-24)

Sr. No.	Course Name	Code	pe	irse P r Wee (Hrs)		Credits	E	semes valuat (Points	ion	End Ser Evalu (Poi	ation	End semester weightag e (%)	Term work/P ractical	Total Points
			L	Р	Т		T-I	T-II	IE	Points	Time (Hrs)			
Core Cou	urses													
1	Applied Mathematics - I	BS-BTM301	3	0	1	4	15	15	10	100	3	60%	50	150
2	Strength of Materials	PC-BTM302	3	0	0	3	15	15	10	100	3	60%	0	100
3	Thermodynamics	PC-BTM305	3	0	1	4	15	15	10	100	3	60%	50	150
4	Manufacturing Science	PC-BTM306	3	0	1	4	15	15	10	100	3	60%	50	150
5	Organizational Communication and Interpersonal Skills	HS-BTM307	2	0	1	3	15	15	10	100	3	60%	50	150
Laborato	ory Courses													
6	Strength of Materials Laboratory	PC-BTM352	0	2	0	1	0	0	0	0	0	0%	50	50
7	Machine Shop Practice	PC-BTM399	0	2	0	1	0	0	0	0	0	0%	50	50
Mandato	ory Courses													
8	Indian Traditional Knowledge	MC-BT002	3	0	0	0	15	15	10	100	3	60%	0	100
Online C	Courses #													
9	Online Course	OL-BTMxxx												
Value Ac	dded Courses #													
10	Value Added Tech./Non-Tech.	VA-BTMxxx,	VN-B	Txxx	Courses offered by CCE									
	TOTAL		•			20								

	Credit Applicable for the	System for Secon						_				3-24)		
Sr. No.	Course Name	Code	Cou	rse Plan eek (Hr	per	Credit	In	semeston (Po	er	End Se Evalu		End semester weightage (%)	Term work/Pr actical	Total Points
			L	Р	Т		T-I	T-II	IE	Points	Time (Hrs)		(Note 2)	
Core	Courses													
1	Applied Mathematics - II	BS-BTM401	3	0	1	4	15	15	10	100	3	60%	50	150
2	Fluid Mechanics	PC-BTM403	3	0	0	3	15	15	10	100	3	60%	0	100
3	Mech. Engineering Measurement	PC-BTM404	3	0	0	3	15	15	10	100	3	60%	0	100
4	Material Science	PC-BTM406	3	0	0	3	15	15	10	100	3	60%	0	100
5	Kinematics of Machinery	PC-BTM412	3	0	1	4	15	15	10	100	3	60%	50	150
Labo	ratory Courses													
7	Fluid Mechanics Laboratory	PC-BTM453	0	2	0	1	0	0	0	0	0	0	50	50
8	Mechanical Engineering Measurements Laboratory	PC-BTM454	0	2	0	1	0	0	0	0	0	0	50	50
9	Material Science Laboratory	PC-BTM456	0	2	0	1	0	0	0	0	0	0	50	50
10	Assembly Shop Practice	PC-BTM499	0	2	0	1	0	0	0	0	0	0	50	50
Onlin	e Courses													
11	#Online course	OL-BTMxxx												
Value	Added Courses													
12	#Value Added Tech./Non-Tech.	VA-BTMxx	x, VN	-BTxxx	ζ				(	Courses off	fered by C	CE		
	TOTAL				21									

## Sardar Patel College of Engineering, Andheri (West), Mumbai Third Year B. Tech. Mechanical Engineering Academic Course Credit System and Evaluation Scheme REGULATION 2022

#### NOTES:

- 1. Refer (i) Academic rules and regulations and (ii) Examination rules and regulations for further details
- 2. Laboratory course is considered as a separate head of passing.
- 3. Tentatively the first two modules of the course content will be covered in T1 and third and fourth modules of the course content will be covered in T2. Any change in the same will be informed by the course instructor. The end semester examination will cover all the modules of the course content. T1 and T2 shall be of 15 points and of one hour duration each.
- 4. Assessment criteria for laboratory/Tutorial work. i.e. weightage for assessment shall be as follows: i) Attendance in Laboratory/Tutorial = 20%, (ii) Journal= 40%, (iii) Practical Examination (and/or) Mini project (and/or) Quiz (and/or) Seminar (and/or) Oral (and/or) Industry visit report= 40%.
- 5. IE: Internal Evaluation will be carried out by course instructor for 10 points. It is the continuous evaluation throughout the semester. The evaluation will be based on minimum three of the following activities decided by course instructor. The maximum points that can be assigned to one activity will be 04. The course instructor needs to inform the students and head of the department about the activities those will be considered for IE and the points assigned to them in first week of semester. The course instructor will submit the internal evaluation points (out of 10 with activity wise break up) to examination section before the beginning of End Semester examination.
  - List of Activities: 1. Class Involvement, 2. Assignments, 3. Problem Solving 4. Mini project, 5. Quizzes, 6. Presentation, or 7. Oral
- 6. Student can opt for an online course available on https://swayam.gov.in/ or https://onlinecourses.nptel.ac.in/ subject to approval from the department. After successful completion of the course, the course title can appear on the grade card of student.
- 7. The Mandatory courses are with Pass (P) and No Pass (NP) grades.
- 8. Department will offer the Value Added courses in a semester subject to availability of resources and enrolment of minimum 20 students opting for the course. Upon completion of the Value Added course, the course title shall appear in the grade card of the student.
- 9. Students can optionally opt for Non-Technical Value Added courses offered by Center for Continuing Education (CCE-SPCE). Upon successful completion of the course, the course title shall appear on student's grade card.
- 10. For Open Elective courses, students with C.P.I. higher than 8.5 can opt for obtaining the credits by completing an online course (approved by department) offered through SWAYAM or NPTEL portal instead of completing elective courses offered by department/institute. Upon successful completion of course, the score given on certificate issued by SWAYAM/NPTEL will be converted to letter grade as per applicable examination regulation.
- 11. For Project Course: Contact hours =2 and self-learning hours will be as per student's choice; It will have in-semester evaluation which shall include one or more in-semester presentations. (\*) 10 points for report and 10 points for presentation and viva voce examined by supervisor and one internal examiner.

	Credit Syst	tem for Third Y	Year 1	B.Tec	h. in N	<b>Iechan</b>	ical I	Engine	ering (	Semeste	er V)				
	1. Applicable for the s	students enteri	ng in	First	Year i	n Acad	lemic	Year 2	2022-2	3 (Appli	cable fron	2024-25)		_	
Sr. No.	Course Name	Code		rse Pla 'eek (H	in per Irs)	Credi ts	E	semes valuatio (Points	on	Eval	emester uation pints)	End semester weightage (%)	Term work/Pra ctical	Total Points	
			L	Р	Т		T-I	T-II	IE	Point s	Time (Hrs)		(Note 2)		
Core	Courses														
1	Heat and Mass Transfer	PC-BTM501	3	0	0	3	15	15	10	100	3	60%	0	100	
2	Mechatronics	PC-BTM503	3	0	0	3	15	15	10	100	3	60%	0	100	
3	Dynamics of Machinery	PC-BTM512	3	0	0	3	15	15	10	100	3	60%	0	100	
4	Thermal and Fluid Machines	PC-BTM514	3	0	0	3	15	15	10	100	3	60%	0	100	
5	Computer Aided Machine Drawing	PC-BTM515	2	0	0	2	15	15	10	100	3	60%	0	100	
Labor	ratory Courses														
6	Heat and Mass Transfer Lab.	PC-BTM551	0	2	0	1	0	0	0	0	0	0	50	50	
7	Mechatronics Lab.	PC-BTM553	0	2	0	1	0	0	0	0	0	0	50	50	
8	Dynamic of Machinery Lab.	PC-BTM562	0	2	0	1	0	0	0	0	0	0	50	50	
9	Thermal and Fluid Machines Laboratory	PC-BTM564	0	2	0	1	0	0	0	0	0	0	50	50	
10	Computer Aided Machine Drg. Lab.	PC-BTM565	0	2	0	1	0	0	0	0	0	0	50	50	
Profe	ssional Elective Course #														
11	Professional Elective Course - I	PE-BTM5xx	3	0	1	4	15	15	10	100	3	60%	50	150	
Mano	latory Courses									<u> </u>					
12	Health Safety and Environment (HSE)	MC-BTM003	2	0	1	1 0 15 15 10 100 3 60% 25 125							125		
Onlin	e Courses #														
13	Online Course	OL-BTMxxx													
Value	Added Courses #														
14	Value Added Tech./Non-Tech.	VA-BTMxxx,	VN-I	BTxx	X					Courses	offered by	CCE			
	TOTAL					23									

	Credit Sys Applicable for the stud	tem for Third <b>Y</b>						_	•		,	(24-25)		
Sr. No.	Course Name	Code	Cou		an per	Credi ts	In E	semes valuati (Points	ter on	End S Eva	emester luation oints)	End semester weightage (%)	Term work/Pra ctical	Total Point s
			L	Р	Т		T-I	T-II	IE	Point s	Time (Hrs)		(Note 2)	
Core	Courses											1		
1	Manufacturing Planning and Control	PC-BTM605	3	0	1	4	15	15	10	100	3	60%	50	150
2	CAD/CAM/CIM	PC-BTM606	2	0	0	2	15	15	10	100	3	60%	0	100
3	Refrigeration and Air-conditioning	PC-BTM611	2	0	0	2	15	15	10	100	3	60%	0	100
4	Machine Design	PC-BTM612	3	0	1	4	15	15	10	100	3	60%	50	150
5	Energy Engineering	PC-BTM614	3	0	1	4	15	15	10	100	60%	50	150	
Labor	ratory Courses													
6	CAD/CAM/CIM Laboratory	PC-BTM656	0	2	0	1	0	0	0	0	0	0	50	50
7	Refrigeration and Air-cond. Laboratory	PC-BTM661	0	2	0	1	0	0	0	0	0	0	50	50
Profe	ssional Elective Course#													
8	Professional Elective Course - II	PE-BTM6xx	3	0	1	4	15	15	10	100	3	60%	50	150
Open	Elective Course#													
9	Open Elective -I	OE-BTx6xx	2	0	1	3	15	15	10	100	3	60%	50	150
Proje	ct Course													
10	Project Stage I	PR-BTM698		2		1		One o	r more	In-seme	ester preser	ntations	50	50
Mano	datory Skill Based Courses #													
11	Skill Based Course	SK-BTM6xx	0	2	0	0	0 0 0 0 0						50	50
Onlin	e Courses#													
12	12 Online Course OL-BTMxxx													
Value	alue Added Courses													
13	#Value Added Tech./Non-Tech.	VA-BTMxxx,	VN-I	BTxx	X				(	Courses of	fered by CO	CE		
	TOTAL					26								

## Sardar Patel College of Engineering, Andheri (West), Mumbai

#### Final Year B. Tech.

#### **Mechanical Engineering**

### **Academic Course Credit System and Evaluation Scheme**

#### **REGULATION 2022**

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- 10. For Open Elective courses, students with C.P.I. higher than 8.5 can opt for obtaining the credits by completing a online course (approved by department) offered through SWAYAM or NPTEL portal instead of completing elective courses offered by department/institute. Upon successful completion of course, the score given on certificate issued by SWAYAM/NPTEL will be converted to letter grade as per applicable examination regulation.
- 11. For Project Course: Contact hours = 2 and self-learning hours (\$) = 6; It will have in-semester evaluation which shall include one or more in-semester presentations. (\*) 10 points for report and 10 points for presentation and viva voce examined by supervisor and one internal examiner.
- 12. For Internship: Refer Academic book for details.

# Credit System for Final Year B.Tech. in Mechanical Engineering (Semester VII) Applicable for the students entering in First Year in Academic Year 2022-23 (Applicable from 2025-26)

	**		0							` 11				
Sr. No.	Course Name	Code		se Pla eek (H	-	Credits	Ev	semest aluatio Points)	n		Semester tion (Points)	End semester weightag e (%)	Term work/Prac tical	Total Points
			L	Р	Т		T-I	T-II	ΙE	Points	Time (Hrs)			
Core	Courses													
1	Design of Machines and Mechanical Systems	PC-BTM711	3	0	1	4	15	15	10	100	3	60%	50	150
2	Industrial Engineering and Project Management	PC-BTM714	3	0	1	4	15	15	10	100	3	60%	50	150
Prof	essional Elective Course #													
3	Professional Elective - III	PE-BTM7xx	3	0	1	4	15	15	10	100	3	60%	50	150
4	Professional Elective - IV	PE-BTM7xx	3	0	1	4	15	15	10	100	3	60%	50	150
Ope	n Elective Course #													
5	Open Elective - II	OE-BTM7xx	2	0	1	3	15	15	10	100	3	60%	50	150
Proj	ect Course													
6	Project Stage II	PR-BTM798		2 + 69	<b>5</b>	4		One o	r more	In-seme	ester presenta	tions	100	100
Onli	ne Courses #					<u> </u>								
7	Online Course	OL-BTMxxx												
Valu	e Added Courses #													
8	Value Added Tech./Non-Tech.	VA-BTMxxx,	VN-B	Txxx					(	Courses of	fered by CCE			_
_	TOTAL					23								

	Cred Applicable for t	it System for Fi he students ente											
Sr. No.	Course Name	Code		urse Plan p Week (Hrs)		Credits	Evalu	mester uation ints)		Semester ion (Points)	End semester weightage (%)	Term work/Practical	Total Points
			L	Р	Т		T-I	T-II	Points	Time (Hrs)			
Ope	n Elective Course												
1	Open Elective -III	PR-BTM8xx	SWAY	YAM / NPTL of 12 weeks	Course	3			-	-	-	100	100
Inte	rnship				_								
2	External / Internal Internship	PR-BTM8xx				9	Re	efer insti	tute acad	emic book fo	or details	200	200
	TOTAL					12							

TABLE PEC-TYBTECH: Professional Elective Courses - I and II for Third Year B.Tech. in Mechanical Engineering (Semester V and VI)

Sr. No.	Course Name	Specia lization	Code	Cou	ırse Pla Week	-	Credits	In Evalua	ser ition(Po	mester pints)	_	Semester tion (Points)	End semester weightage (%)	Term work/P ractical	Total Points
				L	Р	T				ΙE	Points	Time (Hrs)		(Note 2)	
			Profes	sional	Electiv	e Course	es I and II								
1	Finite Element Methods for Mech. Engineers	D	PE-BTM511	3	2	0	4	15	15	10	100	3	60%	50	150
2	Mechanical Vibrations	D	PE-BTM518	3	0	1	4	15 15 10			100	3	60%	50	150
3	Solid Mechanics	D	PE-BTM519	3	0	1	4	15	15	10	100	3	60%	50	150
4	Composite Material Technology	M	PE-BTM532	3	0	1	4	15	15	10	100	3	60%	50	150
5	Lean and Green Manufacturing	M	PE-BTM534	3	0	1	4	15	15	10	100	3	60%	50	150
6	Tool Engineering	M	PE-BTM537	3	0	1	4	15	15	10	100	3	60%	50	150
7	Industrial Mgmt. and Entrepreneurship	M	PE-BTM538	3	0	1	4	15	15	10	100	3	60%	50	150
8	Additive Manufacturing	M	PE-BTM539	3	0	1	4	15 15 10			100	3	60%	50	150
9	Hydraulic Machinery	T	PE-BTM552					15	15	10	100	3	60%	50	150
10	Compressible Fluid Flow	T	PE-BTM554	3	0	1	4	15	15	10	100	3	60%	50	150

Note: Specializations are: D - Design, M - Manufacturing, T - Thermal Engineering

TABLE OEC-TYBTECH: Open Elective Courses -I offered by Mechanical Engineering Department for Third Year B.Tech. in Mechanical Engineering (Semester VI)

Sr. No.	Course Name	Code		ırse Plaı Veek (H	•		In sem Evalua		oints)		Semester ion (Points)	weightage	Term work/P ractical	Points I
			L	P	Т					Points	Time (Hrs)		(Note 2)	
			Ope	n Electi	ve Cour	rses - I								
1	Computational Methods	OE-BTM611	2	0	1	ses - I 3 15 15 10			100	3	60%	50	150	
2	Entrepreneurship Development and Start-up	OE-BTM613	2	0	1	3	15	15	10	100	3	60%	50	150
3	Introduction to Optimization Methods	OE-BTM614	2	0	1	3	15	15	10	100	3	60%	50	150
4	Industry 4.0	OE-BTM616	2	0	1	3	3 15 15 10			100	3	60%	50	150
5.	Smart City for Sustainable Development	OE-BTM618	2	0	1	3 15 15 10			100	3	60%	50	150	
5	Online Course from SWAYAM/NPTEL	OE-BTS6Mx	0	0	0	3	0	0		100	0	100%	0	100

Additional OEC available: Refer open elective courses offered by Civil and Electrical Engineering Department of SPCE

TABLE PEC-BTECH: Professional Elective Courses – III and IV for Final Year B.Tech. in Mechanical Engineering (Semester VII)

Sr. No.	Course Name	Speciali zation	Code		rse Plai eek (H	•	Credits		n semes uation (		_	Semester ion (Points)	End semester weightage (%)	Term work/P ractical	l Points l
				L	Р	T		T-I	T-II	IE	Points	Time (Hrs)		(Note 2)	
			Profess	sional E	ective Courses III and IV										
1	Process Eqpt. Design and Piping Engg.	D	PE-BTM711	3	0	1	4	4 15 15 10			100	3	60%	50	150
2	Fatigue, Fracture and Failure Analysis	D	PE-BTM718	3	0	1	4	15 15 10			100	3	60%	50	150
3	Industrial Robotics	M	PE-BTM733	3	0	1	4	15	15	10	100	3	60%	50	150
4	Supply Chain Management	M	PE-BTM734	3	0	1	4	15	15	10	100	3	60%	50	150
5	Welding Process and Welding Technology	M	PE-BTM735	3	0	1	4	15	15	10	100	3	60%	50	150
6	Computational Fluid Dynamics	T	PE-BTM752	3	0	1	4	15	15	10	100	3	60%	50	150
7	Introduction to Cryogenics	T	PE-BTM753	3	0	1	4	15	15	10	100	3	60%	50	150
8	Power Plant Engineering	T	PE-BTM754	3	0	1	4	4 15 15 10		100	3	60%	50	150	
9	Automobile Engineering	T	PE-BTM755	3	0	1	4	15	15	10	100	3	60%	50	150
10	Renewable Energy Sources and Utilization	T	PE-BTM756	3	0	1	4	15	15	10	100	3	60%	50	150

**Note:** Specializations are: D - Design, M - Manufacturing, T - Thermal Engineering

# TABLE OEC-BTECH: Open Elective Courses - II and III for Final Year B.Tech. in Mechanical Engineering (Semester VII and VIII)

Sr. No.	Course Name	Code		rse Plan /eek (Hr	•	Credits	In Evalu	sei iation (F	mester Points)		Semester ion (Points)	End semester weightage (%)	Term work/P ractical	Points
			L	Р	T		T-I	T-II	ΙE	Points	Time (Hrs)		(Note 2)	
			Open E	Elective	Courses	- II and	III							
1	Introduction to Research Methodology	OE-BTM712	2	0	1	3	15	15	10	100	3	60%	50	150
2	Introduction to MEMS	OE-BTM714	2	0	1	3	15	15	10	100	3	60%	50	150
3	Solar and Wind Technology	OE-BTM715	2	0	1	3	15	15	10	100	3	60%	50	150
4	Digital Twin	OE-BTM617	2	0	1	3	15	15	10	100	3	60%	50	150
5	Fundamentals of AI and Machine Learning	OE-BTM718	2	0	1	3	15	15	10	100	3	60%	50	150
6	Value Engineering	OE-BTM719	2	0	1	3	15	15	10	100	3	60%	50	150
7	Generative Design	OE-BTM721	2	0	1	3	15	15	10	100	3	60%	50	150
8	Big Data Analytics	OE-BTM891	2	0	1	3	15	15	10	100	3	60%	50	150
9	Introduction to Augmented Reality	OE-BTM717	2	0	1	3	15	15	10	100	3	60%	50	150
10	Online Course from SWAYAM/NPTEL	OE-BTS7Mx	0	0	0	3	0	0		100	0	100%	0	100
	Refer TABLE SWAYAM / NPTL													
Ad	ditional OEC available: Refer open electiv	e courses offered b	y Civi	and El	ectrica	l Engine	ering I	Departn	nent of	SPCE				_

Table GATE-MAP: Alignment of Course Content with GATE Syllabus B.Tech. in Mechanical Engineering

No.	Section	Core courses in SPCE Curriculum 2023-24	Topics From GATE Syllabus
1	D	Machine Design	Machine Design
2	D	Design of Machines and Mech. Systems	Machine Design
3	D	Kinematics of Machinery	Theory of Machines
4	D	Dynamics of Machinery	Theory of Machines, Vibrations
6	D	Strength of Materials	Mechanics of Materials
7	D	Computer Aided Machine Drawing	Machine Design
8	M	CAD/CAM/CIM	Computer Integrated Manufacturing
9	M	Mechanical Engineering Measurements	Metrology and Inspection
10	M	Manufacturing Science	Casting, Forming and Joining Processes; Machining and machine tool operations
11	M	Manufacturing Planing and Control	Production Planning and Control, Inventory Control, Operations Research
12	M	Mechatronics	Computer Integrated Manufacturing
13	M	Ind. Engg. And Proj./Fin. Mgmt.	Production Planning and Control, Operations Research
14	M	Material Science	Engineering materials
15	T	Thermal Systems	Applications of Fluid mechanics and Thermal sciences
16	T	Fluid Mechanics	Fluid Mechanics
17	T	Heat and Mass Transfer	Heat-Transfer
18	T	Refrigeration and Air-conditioning	Applications of Fluid mechanics and Thermal sciences
19	T	Thermodynamics	Thermodynamics
20	T	Energy Engineering	Applications of Fluid mechanics and Thermal sciences
21	MATH	Applied Mathematics,	Linear Algebra, Calculus, Differential Equations, Complex variables, Probability and Statistics, Numerical Methods

**Note:** Sections are: D - Applied Mechanics and Design, M -Materials, Manufacturing and Industrial Engineering, T - Fluid Mechanics and Thermal Sciences, MATH - Engineering Mathematics

#### TABLE SWAYAM / NPTL: Online Courses (12 Week) offered by SWAYAM or NPTL Portal for OE-II, III

Sr. No.	Course Name	Coordinating Institute	Proposed Faculty Coordinator
1	Heat Exchangers: Fundamentals And Design Analysis	IITG	RSM
2	Finite Element Method: Variational Methods to Computer Programming	IITK	NRR
3	Computational Continuum Mechanics	IITM	RBB
4	Metal Additive Manufacturing	IITG	RBB
5	Numerical Methods for Engineers	IITG	HSM
6	Solar Energy Engineering and Technology	IITK	KSB
7	Heat Exchangers: Fundamentals And Design Analysis	IITM	NRR/DNJ
8	Finite Element Method: Variational Methods to Computer Programming	IITG	SRV
9	Computational Continuum Mechanics	IITG	RSM
10	Metal Additive Manufacturing	IITK	KSB
11	Numerical Methods for Engineers	IITM	RSM
12	Solar Energy Engineering and Technology	IITG	BNB
13	Heat Exchangers: Fundamentals And Design Analysis	IITG	RSM
14	Finite Element Method: Variational Methods to Computer Programming	IITK	DNJ/NRR
15	Computational Continuum Mechanics	IITM	DNJ/NRR
16	Metal Additive Manufacturing	IITG	KSB
17	Numerical Methods for Engineers	IITG	RSM
18	Solar Energy Engineering and Technology	IITK	RSM

**NOTE:** Students should explore for details of the course.

Course enrollment dates are generally in the month of July-August and December-January