



## University College of Engineering

(AUTONOMOUS)

OSMANIA UNIVERSITY, HYDERABAD – 500 007.

No. 3344 /Admin./UCE/2025

Date: 24 -07-2025

### CIRCULAR

It is hereby informed to all the BE & ME Regular students that the list of courses recognised by respective Department Chairperson Board of Studies (Autonomous) from the courses offered by SWAYAM-NPTEL for the July — December 2025 semester is herewith enclosed and uploaded in the college website i.e., [www.uceou.edu](http://www.uceou.edu). From the above recognised course list students have to register in the SWAYAM NPTEL website ([https://swayam.gov.in/nc\\_details/NPTEL](https://swayam.gov.in/nc_details/NPTEL)), with prior permission from their respective Department CBoS Autonomous. **Credit transfer will be allowed only to those BE V semester students who have opted for Minor or Honours courses, BE VII Semester & ME III Semester students who went for Industry Internship forwarded by the Principal, UCE, OU.** The subject/subjects they intend to register should not be studied by them in their previous semesters. However, other interested students may also register for improving their personal profile.

The respective CBoS Autonomous has to send a copy of the list of BE V Semester Minor & Honours students, BE VII Semester & ME III Semester students who registered for Swayam NPTEL courses to Principal, UCE, OU, Director of Evaluation, Examination Cell, UCE, OU and SPOC, Swayam NPTEL, UCE, OU.

Students are also advised to select a subject equivalent to their graduating degree i.e., UG/PG and as per the credit requirements. Generally, for **4 weeks, 8 weeks and 12 weeks course 1, 2 and 3 credits** are offered respectively. They have to register for various courses under University College of Engineering, Osmania University Local chapter (ID:2110) for getting official recognition of the certificates. Also, it may be noted that there is no makeup or supplementary examination for Swayam NPTEL courses. All the Heads of the departments are requested to display the recognised course list in their respective departments. The last date for registration for **Set 1(4 & 8 Weeks) and 12 weeks course** is **28-07-2025** and **Set 2(4 & 8 weeks)** is **18-08-2025**. Students are informed that the information provided here is only tentative and are advised to visit Swayam NPTEL website for exact information for various details like last date of registration, number of credits etc. The registration process is explained in the attached flow chart.

- Copy to:
1. Dean, Faculty of Engineering, OU
  2. Director CDACC, UCE, OU
  3. Vice Principal, UCE, OU
  4. Head & CBoS (Autonomous) CSE, ECE, EEE, BME, CIVIL and MECH. Engg.
  5. Director of Evaluation, Examination Cell, UCE, OU
  6. Dr. L. Siva Rama Krishna, SPOC, Local Chapter, NPTEL, UCE, OU
  7. Dr. N. Susheela, PRO, UCE, OU
  8. Dr. D. Suman, TPO, UCE, OU

Principal

PRINCIPAL  
Univ. College of Engg. (A)  
Osmania University

**Department of CIVIL ENGINEERING**  
**University College of Engineering**  
**Osmania University, Hyderabad – 500 007**

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✓  
Recognised Course (REGULAR / Working Professional (Tick the relevant))


List of Civil Engineering Dept., UCE, OU

for

**JULY - DECEMBER 2025 SWAYAM – NPTEL Courses**

Course Id	Discipline	Course Name	Duration	Course Start Date	Course End Date	Level (UG/PG)	Core / Elective	Credits
noc25-ce114	Civil Engg.	Rock Mechanics and Tunnelling	12 Weeks	July 21, 2025	October 10, 2025	UG	BE - Honors Subject in VII-Sem	3 Credits

*B. Reddy*  
**C-BoS (Autonomous)**  
**CED, UCE (A), OU**

  
**CHAIRPERSON**  
**Board of Studies (Autonomous)**  
**Dept. of Civil Engineering**  
**University College of Engineering**  
**Osmania University, Hyderabad-7**



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**University College of Engineering (Autonomous), Osmania University, Hyderabad - 500007**  
**List of Recognised Courses for Regular B.E (Mechanical Engineering) & M.E. (Mechanical Engineering)**  
**JULY-DECEMBER 2025 SWAYAM- NPTEL Courses**

S NO	Course ID	Discipline	Course Name	Duration	Start date	End date	UG/PG	Core/Elective	Credits
1	noc25-me97	Mechanical Engineering	Applied Numerical Methods	12 Weeks	July 21, 2025	October 10, 2025	PG	Elective	3
2	noc25-me101	Mechanical & Industrial Engineering	Material Processing (Metallurgical Aspects):	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
3	noc25-me102	Mechanical Engineering	Thermodynamics	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
4	noc25-me103	Mechanical Engineering	Computational Fluid Dynamics using Finite	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
5	noc25-me104	Mechanical Engineering	Basics of Materials Engineering	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
6	noc25-me106	Mechanical Engineering	Interfacial Fluid Mechanics	12 Weeks	July 21, 2025	October 10, 2025	PG	Elective	3
7	noc25-me107	Mechanical Engineering Design Engineering	Strength of Materials - IITM	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
8	noc25-me108	Mechanical Engineering	Engineering Mechanics	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
9	noc25-me109	Mechanical Engineering	Engineering Fracture Mechanics	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
10	noc25-me111	Mechanical Engineering	Advanced Fluid Mechanics	12 Weeks	July 21, 2025	October 10, 2025	PG	Core	3
11	noc25-me112	Mechanical Engineering	Introduction to Mechanical Vibration	8 Weeks	July 21, 2025	September 12, 2025	UG	Elective	2
12	noc25-me114	Mechanical Engineering	Refrigeration and Air-Conditioning	8 Weeks	July 21, 2025	September 12, 2025	UG	Core	2
13	noc25-me117	Mechanical Engineering	Principles of Metal Forming Technology	8 Weeks	July 21, 2025	September 12, 2025	UG/PG	Core	2
14	noc25-me118	Mechanical Engineering	Theory of Production Processes	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
15	noc25-me119	Mechanical Engineering	Fundamentals of Manufacturing Processes	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
16	noc25-me120	Mechanical Engineering	Joining Technologies for Metals	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
17	noc25-me121	Mechanical Engineering	Product Design and Development	4 Weeks	July 21, 2025	August 15, 2025	UG/PG	Elective	1
18	noc25-me125	Mechanical Engineering	Rapid Manufacturing	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3

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19	noc25-me127	Mechanical Engineering	Principles of Vibration Control	4 Weeks	July 21, 2025	August 15, 2025	UG/PG	Elective	1
20	noc25-me128	Mechanical Engineering	Manufacturing Processes - Casting and Joining	4 Weeks	July 21, 2025	August 15, 2025	UG	Core	1
21	noc25-me129	Mechanical Engineering	Production Technology: Theory and Practice	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
22	noc25-me130	Mechanical Engineering	Metal Additive Manufacturing	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
23	noc25-me131	Mechanical Engineering	Computational Fluid Dynamics and Heat	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
24	noc25-me134	Mechanical Engineering	Convective Heat Transfer	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
25	noc25-me136	Mechanical Engineering	Introduction to Composites	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
26	noc25-me138	Mechanical Engineering	Finite Element Method: Variational Methods to	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
27	noc25-me139	Mechanical Engineering	Dynamic Behaviour of Materials	12 Weeks	July 21, 2025	October 10, 2025	PG	Elective	3
28	noc25-me140	Mechanical Engineering	Fundamentals of Convective Heat Transfer	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
29	noc25-me141	Mechanical Engineering	Advanced Thermodynamics and	12 Weeks	July 21, 2025	October 10, 2025	PG	Core	3
30	noc25-me142	Mechanical Engineering	Mathematical Modeling of Manufacturing Processes	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
31	noc25-me143	Mechanical Engineering	Fundamentals of Conduction and Radiation	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
32	noc25-me144	Mechanical Engineering	Principle of Hydraulic Machines and System	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
33	noc25-me145	Mechanical Engineering	Applied Thermodynamics for Engineers	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
34	noc25-me147	Mechanical Engineering	Aircraft Propulsion	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
35	noc25-me148	Mechanical Engineering	Applied Thermodynamics	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
36	noc25-me149	Mechanical Engineering	Advances in Welding and Joining Technologies	8 Weeks	August 18, 2025	October 10, 2025	UG/PG	Elective	2
37	noc25-me151	Mechanical Engineering	Fundamentals of Additive Manufacturing	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
38	noc25-ge53	Mechanical Engineering Multidisciplinary	Solar Energy Engineering and Technology	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
39	noc25-me153	Mechanical Engineering	Advanced Machining Processes	8 Weeks	August 18, 2025	October 10, 2025	UG/PG	Elective	2

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40	noc25-ge54	Mechanical Engineering	Sustainable Power Generation Systems	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
41	noc25-me154	Mechanical Engineering	Automation in Manufacturing	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
42	noc25-ge55	Mechanical Engineering	Fundamentals of Artificial Intelligence	12 Weeks	July 21, 2025	October 10, 2025	PG	Elective	3
43	noc25-me155	Mechanical Engineering	Materials Processing (Casting, Forming and	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
44	noc25-me156	Mechanical Engineering	Manufacturing Systems Technology I & II	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
45	noc25-me157	Mechanical Engineering	Design Practice - II	8 Weeks	August 18, 2025	October 10, 2025	UG/PG	Elective	2
46	noc25-me160	Mechanical Engineering	Vibrations of Plates and Shells	12 Weeks	July 21, 2025	October 10, 2025	PG	Elective	3
47	noc25-me161	Mechanical Engineering	Industrial Robotics: Theories for	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
48	noc25-me162	Mechanical Engineering	Microfluidics and Nanofluidics	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
49	noc25-me163	Mechanical Engineering	Biomechanics of Joints and Orthopaedic Implants	8 Weeks	August 18, 2025	October 10, 2025	UG/PG	Elective	2
50	noc25-me165	Mechanical Engineering	Computational Fluid Dynamics	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
51	noc25-me166	Mechanical Engineering	Robotics	8 Weeks	July 21, 2025	September 12, 2025	UG/PG	Core	2
52	noc25-me167	Mechanical Engineering	Energy Conservation and Waste Heat Recovery	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
53	noc25-me170	Mechanical Engineering	Heat Exchangers: Fundamentals and Design	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core/Elective	3
54	noc25-me171	Mechanical Engineering	Fundamentals of Heat Transfer	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
55	noc25-me172	Mechanical Engineering	Experimental Methods in Fluid Mechanics	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
56	noc25-me173	Mechanical Engineering	Engineering Graphics and Design	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
57	noc25-me174	Mechanical Engineering	Advanced Fluid Mechanics - IITKGP	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
58	noc25-me175	Mechanical Engineering	Experimental Modal Analysis	12 Weeks	July 21, 2025	October 10, 2025	PG	Elective	3
59	noc25-me176	Mechanical Engineering	Advanced Dynamics	12 Weeks	July 21, 2025	October 10, 2025	PG	Core	3
60	noc25-me177	Mechanical Engineering	Microrobotics	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3

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61	noc25-me178	Mechanical Engineering, Chemical Engineering	Sustainable Energy Technology	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
62	noc25-me179	Mechanical Engineering, Electronics and Electrical	Design of Mechatronic Systems	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
63	noc25-me181	Mechanical, Production Engineering	Industrial Engineering and Operations Research	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core	3
64	noc25-me182	Mechanical/Chemical engineering	Engineering Thermodynamics	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
65	noc25-ge59	Multidisciplinary	Numerical Methods for Engineers	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
66	noc25-ge66	Multidisciplinary	Research Methodology	8 Weeks	July 21, 2025	September 12, 2025	PG	Elective	3
67	noc25-ge72	Multidisciplinary	Bandit Algorithm (Online Machine Learning)	12 Weeks	July 21, 2025	October 10, 2025	PG	Elective	3
68	noc25-hs218	Multidisciplinary	Environmental Science	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3

Date: 16-07-2025

  
**Prof. NARSIMHULU SANKE**  
 Chairperson, Board of Studies  
 (Autonomous)  
 MED, UCE(A), OU

**CHAIRPERSON**  
 Board of Studies in Mechanical Engineering (A)  
 UCE, Osmania University  
 Hyderabad-500 007.



## DEPARTMENT OF MECHANICAL ENGINEERING

University College of Engineering (Autonomous), Osmania University, Hyderabad - 500007

### List of Recognised Courses for B.E (Working Professional - Mechanical Engineering)

#### JULY-DECEMBER 2025 SWAYAM- NPTEL Courses

S.NO	Course ID	Discipline	Course Name	Duration	Start date	End date	UG/PG	Core/Elective	Credits
1	noc25-me101	Mechanical & Industrial Engineering	Material Processing (Metallurgical Aspects):	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
2	noc25-me102	Mechanical Engineering	Thermodynamics	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
3	noc25-me103	Mechanical Engineering	Computational Fluid Dynamics using Finite	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
4	noc25-me104	Mechanical Engineering	Basics of Materials Engineering	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
5	noc25-me107	Mechanical Engineering Design Engineering	Strength of Materials - IITM	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
6	noc25-me108	Mechanical Engineering	Engineering Mechanics	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
7	noc25-me109	Mechanical Engineering	Engineering Fracture Mechanics	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
8	noc25-me112	Mechanical Engineering	Introduction to Mechanical Vibration	8 Weeks	July 21, 2025	September 12, 2025	UG	Elective	2
9	noc25-me114	Mechanical Engineering	Refrigeration and Air-Conditioning	8 Weeks	July 21, 2025	September 12, 2025	UG	Core	2
10	noc25-me117	Mechanical Engineering	Principles of Metal Forming Technology	8 Weeks	July 21, 2025	September 12, 2025	UG	Core	2
11	noc25-me118	Mechanical Engineering	Theory of Production Processes	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
12	noc25-me119	Mechanical Engineering	Fundamentals of Manufacturing Processes	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
13	noc25-me120	Mechanical Engineering	Joining Technologies for Metals	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
14	noc25-me121	Mechanical Engineering	Product Design and Development	4 Weeks	July 21, 2025	August 15, 2025	UG	Elective	1
15	noc25-me125	Mechanical Engineering	Rapid Manufacturing	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
16	noc25-me127	Mechanical Engineering	Principles of Vibration Control	4 Weeks	July 21, 2025	August 15, 2025	UG	Elective	1
17	noc25-me128	Mechanical Engineering	Manufacturing Processes - Casting and Joining	4 Weeks	July 21, 2025	August 15, 2025	UG	Core	1
18	noc25-me129	Mechanical Engineering	Production Technology: Theory and Practice	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
19	noc25-me130	Mechanical Engineering	Metal Additive Manufacturing	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
20	noc25-me131	Mechanical Engineering	Computational Fluid Dynamics and Heat Transfer	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3



21	noc25-me134	Mechanical Engineering	Convective Heat Transfer	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
22	noc25-me136	Mechanical Engineering	Introduction to Composites	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
23	noc25-me138	Mechanical Engineering	Finite Element Method: Variational Methods to	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
24	noc25-me140	Mechanical Engineering	Fundamentals of Convective Heat Transfer	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
25	noc25-me142	Mechanical Engineering	Mathematical Modeling of Manufacturing Processes	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
26	noc25-me143	Mechanical Engineering	Fundamentals of Conduction and Radiation	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
27	noc25-me144	Mechanical Engineering	Principle of Hydraulic Machines and System Design	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
28	noc25-me145	Mechanical Engineering	Applied Thermodynamics for Engineers	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
29	noc25-me147	Mechanical Engineering	Aircraft Propulsion	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
30	noc25-me148	Mechanical Engineering	Applied Thermodynamics	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
31	noc25-me149	Mechanical Engineering	Advances in Welding and Joining Technologies	8 Weeks	August 18, 2025	October 10, 2025	UG	Elective	2
32	noc25-me151	Mechanical Engineering	Fundamentals of Additive Manufacturing Technologies	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
33	noc25-ge53	Mechanical Engineering Multidisciplinary	Solar Energy Engineering and Technology	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
34	noc25-me153	Mechanical Engineering	Advanced Machining Processes	8 Weeks	August 18, 2025	October 10, 2025	UG	Elective	2
35	noc25-ge54	Mechanical Engineering	Sustainable Power Generation Systems	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
36	noc25-me154	Mechanical Engineering	Automation in Manufacturing	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
37	noc25-me155	Mechanical Engineering Metallurgy and Material	Materials Processing (Casting, Forming and Welding)	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
38	noc25-me156	Mechanical Engineering	Manufacturing Systems Technology I & II	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
39	noc25-me157	Mechanical Engineering	Design Practice - II	8 Weeks	August 18, 2025	October 10, 2025	UG	Elective	2
40	noc25-me161	Mechanical Engineering	Industrial Robotics: Theories for Implementation	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
41	noc25-me162	Mechanical Engineering	Microfluidics and Nanofluidics	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
42	noc25-me163	Mechanical Engineering	Biomechanics of Joints and Orthopaedic Implants	8 Weeks	August 18, 2025	October 10, 2025	UG	Elective	2
43	noc25-me165	Mechanical Engineering	Computational Fluid Dynamics	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
44	noc25-me166	Mechanical Engineering	Robotics	8 Weeks	July 21, 2025	September 12, 2025	UG	Core	2

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45	noc25-me167	Mechanical Engineering	Energy Conservation and Waste Heat Recovery	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
46	noc25-me170	Mechanical Engineering	Heat Exchangers: Fundamentals and Design	12 Weeks	July 21, 2025	October 10, 2025	UG	Core/Elective	3
47	noc25-me171	Mechanical Engineering	Fundamentals of Heat Transfer	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
48	noc25-me172	Mechanical Engineering	Experimental Methods in Fluid Mechanics	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
49	noc25-me173	Mechanical Engineering	Engineering Graphics and Design	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
50	noc25-me174	Mechanical Engineering	Advanced Fluid Mechanics - IITKGP	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
51	noc25-me177	Mechanical Engineering	Microrobotics	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
52	noc25-me178	Mechanical Engineering, Chemical Engineering	Sustainable Energy Technology	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
53	noc25-me179	Mechanical Engineering, Electronics and Electrical	Design of Mechatronic Systems	12 Weeks	July 21, 2025	October 10, 2025	UG	Elective	3
54	noc25-me181	Mechanical, Production Engineering	Industrial Engineering and Operations Research	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
55	noc25-me182	Mechanical/Chemical engineering	Engineering Thermodynamics	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
56	noc25-ge59	Multidisciplinary	Numerical Methods for Engineers	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3
57	noc25-hs218	Multidisciplinary	Environmental Science	12 Weeks	July 21, 2025	October 10, 2025	UG	Core	3

Date: 16-07-2025

  
Prof. NARSIMHULU SANKE

Chairperson, Board of Studies (Autonomous)

MED, UCE(A), OU

**CHAIRPERSON**  
Board of Studies in Mechanical Engineering (A)  
UCE, Osmania University  
Hyderabad-500 007.



**Department of Electrical Engineering**  
**University College of Engineering**  
**Osmania University, Hyderabad – 500 007**

**Recognised Course (REGULAR / Working Professional)**  
**List of Electrical Engineering Department, UCE (A), OU for**  
**JULY-DECEMBER 2025 SWAYAM- NPTEL Courses**

Course Id	Discipline	Course Name	Duration	Course Start Date	Course End Date	Level (UG/ PG)	Core/ Elective	Credits
noc25-ee98	Electrical and Electronics Engineering	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	8 Weeks	July 21, 2025	September 12, 2025	UG/PG	Elective	2
noc25-ee99	Electrical and Electronics Engineering	Dc Microgrid and Control System	8 Weeks	July 21, 2025	September 12, 2025	PG	Elective	2
noc25-ee119	Electrical and Electronics Engineering	Design of Photovoltaic Systems	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3
noc25-ee150	Electrical Engineering	Advanced Distribution System Analysis and Operation	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective	3



Signature of CBoS (Autonomous)

Department of Electrical Engineering  
University College of Engineering (A)

Osmania University

CHAIRPERSON

Board of Studies in Electrical Engg.  
Osmania University,  
Hyderabad-500 007



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**UNIVERSITY COLLEGE OF ENGINEERING: OSMANIA UNIVERSITY**  
**HYDERABAD – 500007**

Recognised Course (REGULAR / Working Professional (Tick the relevant))  
 List of ECE Dept., UCE, OU for  
 JULY - DECEMBER 2025 SWAYAM- NPTEL Courses

S. No.	Course Id	Discipline	Course Name	Duration	Course Start Date	Course End Date	Course enrolment ends	Level (UG/PG)	Core/ Elective	Credits
1	noc25-ee130	Electrical and Electronics Engineering	Modern Digital Communication Techniques	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG	Elective	3
2	noc25-ee148	Electrical Engineering / Electronics and Communication Engineering	Applied Electromagnetics for Engineers	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG	Core	3
3	noc25-ee157	Electrical Engineering / Electronics and Communication Engineering	Analog Electronic Circuits - IITKGP	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG	Core	3
4	noc25-ee170	Electrical Engineering / Electronics and Communication Engineering	Digital Speech Processing	8 Weeks	July 21, 2025	September 12, 2025	July 28, 2025	UG	Elective	2
5	noc25-ee171	Electrical Engineering / Electronics and Communication Engineering	Basics of Software Defined Radios and Practical Applications	4 Weeks	July 21, 2025	August 15, 2025	July 28, 2025	UG/PG	Elective	1
6	noc25-ee172	Electrical Engineering / Electronics and Communication Engineering	5G Wireless Standard Design	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG/PG	Elective	3
7	noc25-ee173	Electronics and Communication Engineering, Microelectronics and VLSI	Low Voltage CMOS Circuit Operation	8 Weeks	July 21, 2025	September 12, 2025	July 28, 2025	UG/PG	Elective	2
8	noc25-ee174	Electrical Engineering / Electronics and Communication Engineering	Introduction to Microwave and Optical Metamaterials	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG/PG	Elective	3
9	noc25-ee176	Electrical Engineering / Electronics and Communication Engineering	Signal Processing Algorithms and Architectures	4 Weeks	August 18, 2025	September 12, 2025	August 18, 2025	UG/PG	Core	1
10	noc25-ee178	Electrical Engineering / Electronics and Communication Engineering	Microwave Engineering	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG	Core	3
11	noc25-ee179	Electrical Engineering / Electronics and Communication Engineering	Simulation of Communication Systems using Matlab	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG	Elective	3

*A. S. S. S.*  
 11 CHAIRMAN  
 BOARD OF STUDIES  
 Dept. of Electronics & Comm. Engg.  
 Osmania University,  
 Hyderabad-500 007



**Department of Computer Science & Engineering**  
**University College of Engineering**  
**Osmania University, Hyderabad – 500 007**

**Recognised Course List of CSE Dept., UCE, OU for**  
**-NOVEMBER 2025 SWAYAM- NPTEL Courses**

Course Id	Discipline	Course Name	Equivalent	Duration	Course Start Date	Course End Date	Course enrolment ends	Level (UG/PG)	Core / Elective	Credits
<b>NPTEL Courses Equivalent Course in CSE / AIML Syllabus (VII-Semester)</b>										
noc25-cs93	Computer Science and Engineering	Deep Learning for Computer Vision	Computer Vision	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG/PG	Elective	3
noc25-cs92	Computer Science and Engineering	Reinforcement Learning	Reinforcement Learning	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG/PG	Elective	3
<b>NPTEL Courses Equivalent Course in CSE Syllabus (VII-Semester)</b>										
noc25-cs107	Computer Science and Engineering	Cloud Computing	Cloud Computing	12 Weeks	July 21, 2025	October 10, 2025	July 28, 2025	UG	Elective	3



**(Prof.P.V.Sudha)**

**Signature of CBoS (Autonomous)**

**Dept. Name: CSE, UCE(A), OU**

**UCE, OSMANIA UNIVERSITY**

**CHAIRMAN**

**Board of Studies in CSE (A)**

**Dept. of Computer Science & Engg.**

**College Of Engg., O.U. Hyderabad.**

# Department of Biomedical Engineering

## University College of Engineering

Osmania University, Hyderabad – 500 007

### JULY-DECEMBER 2025 SWAYAM- NPTEL Courses

#### LIST OF COURSES OFFERED BY NPTEL IN BME FOR JULY-DECEMBER 2025

S NO	Course ID	Discipline	Course Name	Duration	Start date	End date	UG/PG	Core/Elective
1	noc25-bt48	Biomedical Engineering	Statistics for Biomedical Engineers	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
2	noc25-bt49	Biomedical Engineering	Biomedical Instrumentation	12 Weeks	July 21, 2025	October 10, 2025	UG	Core
3	noc25-bt50	Biomedical Engineering, Pharmaceutical Engineering	Human Physiology	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core
4	noc25-bt59	Biosciences and Bioengineering	Cognition and its Computation	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
5	noc25-bt79	Biotechnology and Bioengineering	Animal Physiology	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Core
6	noc25-bt82	Biotechnology and Bioengineering	Computational Neuroscience	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
7	noc25-bt84	Biotechnology and Bioscience / Bio engineering; Chemical Engineering	Fundamentals of Bioprocess Engineering	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
8	noc25-ge77		Machine Learning for Core Engineering Disciplines	12 Weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
9	noc25-bt55	Multidisciplinary Biosciences and Bioengineering	Drug Delivery: Principles and Engineering	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
10	noc25-bt57	Biosciences and Bioengineering	Cell and Molecular Biology	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Core



11	noc25-bt58	Biosciences and Bioengineering	Immunology	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Core
12	noc25-bt59	Biosciences and Bioengineering	Cognition and its Computation	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
13	noc25-bt75	Biotechnology and Bioengineering	Principles of Downstream Techniques in Bioprocess	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
14	noc25-ge58	Multidisciplinary	Neuroscience of Human Movements	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
15	noc25-ge78	Multidisciplinary	Essential Neuroscience: A Beginners Guide	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
16	noc25-bt81	Biotechnology and Bioengineering	Next Generation Sequencing Technologies: Data Analysis and Applications	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Core
17	noc25-s218	Multidisciplinary	Environmental Science	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Core
18	noc25-e121	Electrical and Electronics Engineering	Nano biophotonics: Touching Our Daily Life	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Elective
19	noc25-e142	Electrical Engineering / Electronics and Communication Engineering	Electronic Systems for Cancer Diagnosis	12 weeks	July 21, 2025	October 10, 2025	UG/PG	Elective



**CHAIRPERSON**  
**BOS IN BME**  
**OSMANIA UNIVERSITY**  
**HYDERABAD - 500007**

**REGISTRATION PROCESS OF SWAYAM NPTEL COURSES BY STUDENTS OF UCE OU**  
(For Credit Transfer)

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**Select the required subjects from the recognised course list given by the corresponding CBoS (Autonomous) of various dept.'s available in the college website [www.uceou.edu](http://www.uceou.edu)**



**Write a Letter to the CBoS (Autonomous) seeking permission to register the subjects selected in the previous step from SWAYAM NPTEL Portal**



**Once the above Letter is approved by the corresponding CBoS (Autonomous) submit the copy of the approved letter to corresponding HOD's, Director of Evaluation, UCE, OU and SPOC NPTEL, UCE, OU**



**Then visit the SWAYAM NPTEL Website [https://swayam.gov.in/nc\\_details/NPTEL](https://swayam.gov.in/nc_details/NPTEL) for registering the courses**

**Note:** The student has to write a letter addressed to CBoS (Autonomous) of the respective departments mentioning the details of the subjects that he/she has chosen from the recognized course list available in the college website. Then the letter has to be approved by CBoS (Autonomous). In case Industry Internship students who are studying BE. V semester and ME III Semester the letter has to be approved by Principal UCE, OU along with respective CBoS (Autonomous) and HOD. The student has to submit the same to Director of Evaluation, Exam cell, UCE, OU and a copy of the same to SPOC, SWAYAM NPTEL UCE, OU. Then register for the course in SWAYAM-NPTEL Website.