

Website: www.uceou.edu



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University College of Engineering (AUTONOMOUS)

OSMANIA UNIVERSITY, HYDERABAD - 500 007.

No. 1250 /Admin./UCE/2024

Date 26-07-2024

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 2024** semester is herewith enclosed and uploaded in the college website i.e., 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), 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** and the subject/subjects they intend to register should not be studied by them in their previous semesters. However, other interested students may 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 who registered for Swayam NPTEL courses to 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 29-07-2024** and **Set 2 is 19-08-2024**. 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, 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. J. Upender, Swayam Coordinator, OU & TPO, UCE, OU


Principal

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

**DEPARTMENT OF BIOMEDICAL ENGINEERING
UNIVERSITY COLLEGE OF ENGINEERING
OSMANIA UNIVERSITY, HYDERABAD-500007**

BME - Final List of Courses in July-December 2024 semester

| Discipline | Course Name | Duration | Start date | End date | Enrollment end date | UG/PG | Core/ Elective |
|---|---|----------|--------------|-----------------|---------------------|-------|----------------|
| Biomedical Engineering, Electrical and Electronics Engineering, Instrumentation Engineering, MEMS | Biomedical Ultrasound Fundamentals of Imaging and Micromachined Transducers | 12 Weeks | July 22,2024 | October 11,2024 | 29-Jul-24 | UG/PG | Elective |
| Biotechnology and Bioengineering | Drug Delivery: Principles and Engineering | 12 Weeks | July 22,2024 | October 11,2024 | 29-Jul-24 | UG/PG | Elective |
| Biotechnology and Bioengineering | Fundamentals of Micro and Nanofabrication | 12 Weeks | July 22,2024 | October 11,2024 | 29-Jul-24 | UG/PG | Core |
| Biotechnology and Bioengineering | Medical Image Analysis | 12 Weeks | July 22,2024 | October 11,2024 | 29-Jul-24 | UG/PG | Core |
| Biotechnology and Bioengineering | Computational Neuroscience | 12 Weeks | July 22,2024 | October 11,2024 | 29-Jul-24 | UG/PG | Elective |
| Multidisciplinary | Neuroscience of Human Movements | 12 Weeks | July 22,2024 | October 11,2024 | 29-Jul-24 | UG/PG | Elective |
| Biotechnology and Bioengineering | Transport Phenomena in Biological Systems | 12 Weeks | July 22,2024 | October 11,2024 | 29-Jul-24 | UG/PG | Elective |



Signature of CBOS (Autonomous)
Dr. G. Shravanika
Assistant Professor
Dept. of BME, UCE (A), OU
OSMANIA UNIVERSITY

CHAIRPERSON
Board Of Studies
Dept. Of BME, UCE, OU.



Department of Civil Engineering
University College of Engineering
Osmania University, Hyderabad – 500 007


Recognized Course (REGULAR / Working Professional (Tick the relevant))

List of Civil Engineering Dept., UCE, OU for
JULY-DECEMBER 2024 SWAYAM- NPTEL Courses

| Course ID | Discipline | Course Name | Duration | Course Start date | Course End date | Course Enrollment Ends | Level (UG/PG) | Core/Elective | Credits |
|------------------|-------------------|---|-----------------|--------------------------|------------------------|-------------------------------|----------------------|----------------------|----------------|
| noc24_ce17 | Civil Engineering | Geosynthetics and Reinforced Soil Structures | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| noc23_ce63 | Civil Engineering | Introductory Field Structural Geology | 4 Weeks | August 19, 2024 | September 13, 2024 | August 19, 2024 | UG | Core | 1 |
| noc23_ce101 | Civil Engineering | Geotechnical Earthquake Engineering | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc23_ce100 | Civil Engineering | Finite Element Method and Computational Structural Dynamics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Core | 3 |
| noc23_ce97 | Civil Engineering | Underground Space Technology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| noc23_ce92 | Civil Engineering | Environmental Chemistry | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Core | 3 |

| | | | | | | | | | |
|-------------|-------------------|--|----------|---------------|--------------------|---------------|-------|----------|---|
| noc23_ce91 | Civil Engineering | Sustainable Transportation Systems | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| noc23_ce98 | Civil Engineering | Environmental Modeling and Simulation | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| noc23_ce96 | Civil Engineering | Advanced Geomatics Engineering | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| noc23_ce105 | Civil Engineering | Plate Tectonics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| noc23_ce74 | Civil Engineering | Introduction to Engineering Seismology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc23_ce70 | Civil Engineering | Geotechnical Engineering - II | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| noc23_ce71 | Civil Engineering | Environmental Geomechanics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Core | 3 |
| noc22_ce98 | Civil Engineering | Structural Geology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| noc23_ce102 | Civil Engineering | Reliability-Based Structural Design | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc23_ce68 | Civil Engineering | River Engineering | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Elective | 2 |
| noc23_ce67 | Civil Engineering | Optimization Methods for Civil Engineering | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc23_ce69 | Civil Engineering | Subsurface Exploration Importance And Techniques Involved | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | PG | Elective | 2 |
| noc23_ce66 | Civil Engineering | Municipal Solid Waste Management | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc23_ce75 | Civil Engineering | Introduction to Multimodal Urban Transportation Systems (MUTS) | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc23_ce85 | Civil Engineering | Wastewater Treatment and Recycling | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |

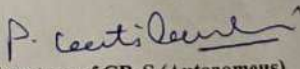
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|-------------|--|--|----------|-----------------|--------------------|-----------------|-------|----------|---|
| noc23_ce90 | Civil Engineering | Sustainable Engineering Concepts and Life Cycle Analysis | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Elective | 2 |
| noc23_ce94 | Civil Engineering | Global Navigation Satellite Systems and Applications | 4 Weeks | July 22, 2024 | August 16, 2024 | July 29, 2024 | UG/PG | Elective | 1 |
| noc20_ce33 | Civil Engineering | Earth Sciences For Civil Engineering Part - I & II | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG | Core | 2 |
| noc23_ce104 | Civil engineering/Applied Geophysics | Earthquake Seismology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| noc23_ce53 | Civil Engineering/Geotechnical Engineering | Finite Element Analysis and Constitutive Modelling in Geomechanics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| noc23_ce109 | Civil/ Structural Engineering | Advanced Reinforced Concrete Design | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Core | 3 |
| | Climate and Environmental Science and Technology | An Introduction to Climate Dynamics, Variability and Monitoring | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |


Signature of CBoS (Autonomous)
Dept. Name: Civil Engineering Dept., UCE(A), OU
OSMANIA UNIVERSITY
 PROFESSOR
 Department of Civil Engineering
 University College of Engineering
 (Autonomous)

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
UNIVERSITY COLLEGE OF ENGINEERING (AUTONOMOUS)
OSMANIA UNIVERSITY, HYDERABAD – 500 007**

Recognised Course (REGULAR / Working Professional (Tick the relevant)) List of ECE Dept., UCE, OU for
JULY-DECEMBER 2024 SWAYAM- NPTEL Courses

| Discipline | Course Name | Duration | Start date | End date | Enrollment End date | UG/PG | Core/Elective | NPTEL ID |
|--|--|----------|---------------|--------------------|---------------------|-------|---------------|-----------|
| Electrical and Electronics Engineering | Analog VLSI Design | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 108104193 |
| Electrical and Electronics Engineering | Phase-Locked Loops | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 108106184 |
| Electrical and Electronics Engineering | VLSI Design Flow: RTL to GDS | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 108106191 |
| Electrical and Electronics Engineering | Simulation of Communication Systems using Matlab | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Elective | 108103191 |
| Electrical and Electronics Engineering | Digital VLSI Testing | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 117105137 |
| Electrical and Electronics Engineering | Real-Time Digital Signal Processing | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 108108185 |
| Electronics and Communication Engineering, Microelectronics and VLSI | Low Voltage CMOS Circuit Operation | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Elective | 117107485 |
| Electronics and Electrical Engineering | VLSI Interconnects | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Elective | 108105187 |


 Signature of CBoS (Autonomous)
 Dept. Name., UCE(A), OU
 OSMANIA UNIVERSITY

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

Recognised Course (Regular)
List of Electrical Engineering Department, UCE, OU for
July- December 2024 -SWAYAM - NPTEL Courses

| Course Id | Discipline | Course Name | Duration | Course start Date | Course End date | Course enrolment ends | Level (UG/PG) | Core/ Elective | Credits |
|-----------|---|---|----------|-------------------|------------------|-----------------------|---------------|----------------|---------|
| HR501EE | Electrical, Mechanical, and Aerospace Engineering | Nonlinear Dynamical Systems and Control | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| MR501EE | Electrical and Electronics Engineering | Basic Electrical Circuits | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |

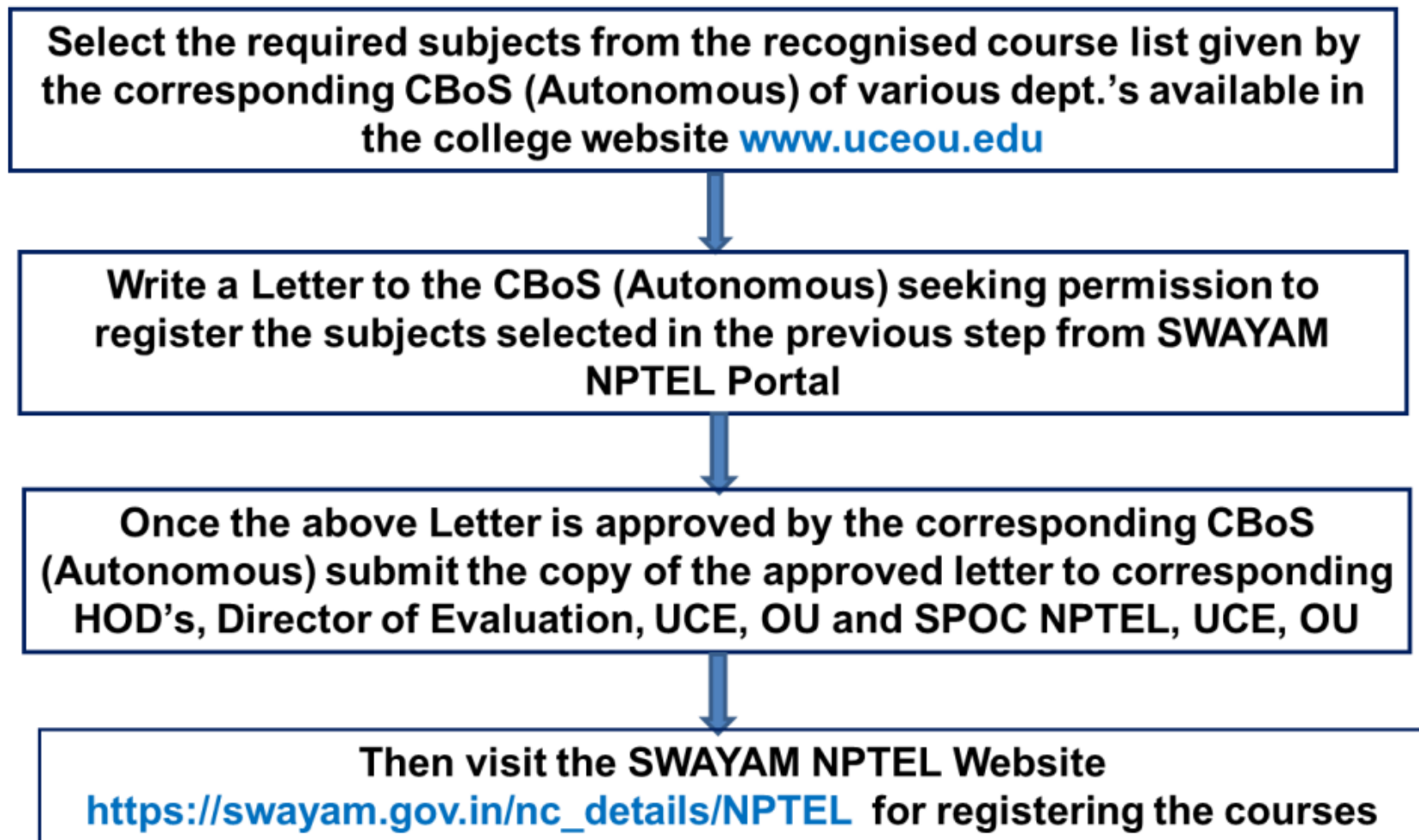


Signature of CBoS (Autonomous)
Dept. of Electrical Engineering, UCE (A), OU
Osmania University

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

REGISTRATION PROCESS OF SWAYAM NPTEL COURSES BY STUDENTS OF UCE OU

(For Credit Transfer)



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 recognised course list available in the college website. Then the letter has to be approved by CBoS (Autonomous). Once the letter is approved by the respective CBoS (Autonomous) 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. The email ids of various CBoS (Autonomous), Director of evaluation, UCE, OU and SPOC, NPTEL, UCE, OU are given below.

| <u>Name</u> | <u>Designation, Branch</u> | <u>Email id</u> |
|---------------------------|---|--------------------------------|
| Prof. K.Shashikanth | CBoS (Autonomous) Civil Engg. | Kulkarni.shashikanth@gmail.com |
| Prof.K. Shyamala | CBoS (Autonomous) CSE | prkshyamala@gmail.com |
| Prof.Narsimhulu Sanke | CBoS(Autonomous) MED | nsanke@osmania.ac.in |
| Prof. Narsimhulu Sanke | Director of Evaluation, Exam cell, UCE OU | doe_uce@osmania.ac.in |
| Prof. L.Siva Rama Krishna | SPOC NPTEL, UCE, OU | sivaramakrishna.l@uceou.edu |

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

Recognised Course List of CSE Dept., UCE, OU for
JULY-DECEMBER 2024 SWAYAM- NPTEL Courses

| Course Id | Discipline | Course Name | Duration | Course Start Date | Course End Date | Course enrolment ends | Level (UG/PG) | Core / Elective | Credits |
|-------------|----------------------------------|--|----------|-------------------|------------------|-----------------------|---------------|-----------------|---------|
| noc24-cs88 | Computer Science and Engineering | Artificial Intelligence: Search Methods for Problem Solving | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Elective | 3 |
| noc24-cs102 | Computer Science and Engineering | Reinforcement Learning | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs117 | Computer Science and Engineering | Parameterized Algorithms | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs90 | Computer Science and Engineering | Social Network Analysis | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs91 | Computer Science and Engineering | Software Testing | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs121 | Computer Science and Engineering | Cyber Security and Privacy | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| noc24-cs93 | Computer Science and Engineering | Multi-Core Computer Architecture | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs107 | Computer Science and Engineering | Statistical Learning for Reliability Analysis | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs94 | Computer Science and Engineering | Ethical Hacking | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs124 | Computer Science and Engineering | Computer Vision | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Elective | 3 |
| noc24-cs95 | Computer Science and Engineering | Introduction to Industry 4.0 and Industrial Internet of Things | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs109 | Computer Science and Engineering | Algorithmic Game Theory | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |

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|-------------|----------------------------------|-------------------------------|----------|---------------|------------------|---------------|-------|----------|---|
| noc24-cs97 | Computer Science and Engineering | Approximation Algorithm | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| noc24-cs132 | Computer Science and Engineering | Responsible & Safe AI Systems | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |

(Prof.K.Shyamala)
Signature of CBoS (Autonomous)
Dept. Name: CSE, UCE(A), OU
UCE, OSMANIA UNIVERSITY

DEPARTMENT OF MECHANICAL ENGINEERING
UNIVERSITY COLLEGE OF ENGINEERING (AUTONOMOUS), OSMANIA UNIVERSITY, HYDERABAD - 500007, T.G.

NPTEL FINAL LIST OF COURSES (JULY - DECEMBER 2024)

| Course ID | Discipline | Course Name | Duration | Start date | End date | Enrollment End date | UG/PG | Core/Elective | Credits |
|-----------|---------------------------------------|---|----------|-----------------|--------------------|---------------------|-------|---------------|---------|
| NC24ME801 | Aerospace / Mechanical Engineering | Elements of Mechanical Vibration | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME802 | Industrial Management and Engineering | Project Management | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG | Elective | 2 |
| NC24ME803 | Interdisciplinary | Intellectual Property Portfolio Management | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG/PG | Elective | 2 |
| NC24ME804 | Mechanical Engineering | Introduction to Mechanical Vibration | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG | Elective | 2 |
| NC24ME805 | Mechanical Engineering | Power Plant Engineering | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG | Core | 2 |
| NC24ME806 | Mechanical Engineering | Refrigeration and Air-conditioning | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG | Core | 2 |
| NC24ME807 | Mechanical Engineering | Principles of Metal Forming Technology | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Core | 2 |
| NC24ME808 | Mechanical Engineering | Theory of Production Processes | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME809 | Mechanical Engineering | Fundamentals of Manufacturing Processes | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| NC24ME810 | Mechanical Engineering | Joining Technologies for Metals | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| NC24ME811 | Mechanical Engineering | Social Innovation in Industry 4.0 | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME812 | Mechanical Engineering | Convective Heat Transfer | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME813 | Mechanical Engineering | Engineering Fracture Mechanics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME814 | Mechanical Engineering | Engineering Mechanics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME815 | Mechanical Engineering | Thermodynamics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Elective | 3 |
| NC24ME816 | Mechanical Engineering | Computational Fluid Dynamics using Finite Volume Method | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME817 | Mechanical Engineering | Mechanics and Control of Robotic Manipulators | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Elective | 2 |
| NC24ME818 | Mechanical Engineering | Interfacial Fluid Mechanics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| NC24ME819 | Mechanical Engineering | Rapid Manufacturing | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME820 | Mechanical Engineering | Engineering Metrology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |

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|-----------|------------------------|---|----------|-----------------|--------------------|-----------------|-------|----------|---|
| NC24ME821 | Mechanical Engineering | Manufacturing Systems Technology I & II | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME822 | Mechanical Engineering | Design Practice - II | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG/PG | Elective | 2 |
| NC24ME823 | Mechanical Engineering | Basics of Finite Element Analysis - I | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Elective | 2 |
| NC24ME824 | Mechanical Engineering | Introduction to Composites | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME825 | Mechanical Engineering | Production Technology: Theory and Practice | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME826 | Mechanical Engineering | Metal Additive Manufacturing | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME827 | Mechanical Engineering | Computational Fluid Dynamics and Heat Transfer | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME828 | Mechanical Engineering | Industrial Robotics : Theories for Implementation | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME829 | Mechanical Engineering | Microfluidics and Nanofluidics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME830 | Mechanical Engineering | Vibrations of Plates and Shells | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| NC24ME831 | Mechanical Engineering | Foundation of Computational Fluid | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG | Elective | 2 |
| NC24ME832 | Mechanical Engineering | Computational Continuum Mechanics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| NC24ME833 | Mechanical Engineering | Dynamic Behaviour of Materials | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| NC24ME834 | Mechanical Engineering | Fundamentals of Convective Heat Transfer | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| NC24ME835 | Mechanical Engineering | Mathematical Modeling of Manufacturing Processes | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME836 | Mechanical Engineering | Fundamentals of Conduction and Radiation | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME837 | Mechanical Engineering | Advanced Thermodynamics and Combustion | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Core | 3 |
| NC24ME838 | Mechanical Engineering | Principle of Hydraulic Machines and System Design | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| NC24ME839 | Mechanical Engineering | Applied Thermodynamics for Engineers | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME840 | Mechanical Engineering | Steam Power Engineering | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG | Core | 2 |
| NC24ME841 | Mechanical Engineering | Laser Based Manufacturing | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG/PG | Elective | 2 |
| NC24ME842 | Mechanical Engineering | Applied Thermodynamics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME843 | Mechanical Engineering | Welding Application Technology | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Core | 2 |

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|-----------|---|--|----------|-----------------|--------------------|-----------------|-------|----------|---|
| NC24ME844 | Mechanical Engineering | Aircraft Propulsion | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| NC24ME845 | Mechanical Engineering | Fundamentals of Additive Manufacturing Technologies | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME846 | Mechanical Engineering | Advances in Welding and Joining Technologies | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG/PG | Elective | 2 |
| NC24ME847 | Mechanical Engineering | Advanced Machining Processes | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG/PG | Elective | 2 |
| NC24ME848 | Mechanical Engineering | Automation in Manufacturing | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME849 | Mechanical Engineering | Engineering Graphics and Design | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME850 | Mechanical Engineering | Biomechanics of Joints and Orthopaedic Implants | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG/PG | Elective | 2 |
| NC24ME851 | Mechanical Engineering | Mechanism and Robot Kinematics | 8 Weeks | August 19, 2024 | October 11, 2024 | August 19, 2024 | UG/PG | Elective | 2 |
| NC24ME852 | Mechanical Engineering | Computational Fluid Dynamics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Core | 3 |
| NC24ME853 | Mechanical Engineering | Robotics | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | UG/PG | Core | 2 |
| NC24ME854 | Mechanical Engineering | Energy Conservation and Waste Heat Recovery | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME855 | Mechanical Engineering | Basics of Mechanical Engineering - 1 | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME856 | Mechanical Engineering | Finite Element Method: Variational Methods to Computer Programming | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME857 | Mechanical Engineering | Fundamentals of Acoustics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| NC24ME858 | Mechanical Engineering | Materials Processing (Casting, Forming and Welding) | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME859 | Mechanical Engineering | Experimental Modal Analysis | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME860 | Mechanical Engineering | Design of Mechatronic Systems | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME861 | Mechanical Engineering, Chemical Engineering | Sustainable Energy Technology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME862 | Mechanical Engineering, Material Science, | Mechanical Behavior of Polymers and Composites | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME863 | Mechanical, Aerospace, Civil, Applied Mechanics | Strength of Materials - IITM | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME864 | Mechanical/Chemical engineering | Engineering Thermodynamics | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME865 | Multidisciplinary | Numerical Methods for Engineers | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME866 | Multidisciplinary | Research Methodology | 8 Weeks | July 22, 2024 | September 13, 2024 | July 29, 2024 | PG | Elective | 2 |

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| NC24ME867 | Multidisciplinary | Environmental Science | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG | Core | 3 |
| NC24ME868 | Multidisciplinary | Thin Film Technology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME869 | Multidisciplinary | Learning Analytics Tools | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME870 | Multidisciplinary | Bandit Algorithm (Online Machine Learning) | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| NC24ME871 | Multidisciplinary | Solar Energy Engineering and Technology | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |
| NC24ME872 | Multidisciplinary | Fundamentals of Artificial Intelligence | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | PG | Elective | 3 |
| NC24ME873 | Multidisciplinary | Sustainable Power Generation Systems | 12 Weeks | July 22, 2024 | October 11, 2024 | July 29, 2024 | UG/PG | Elective | 3 |



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