



## University College of Engineering

(AUTONOMOUS)

OSMANIA UNIVERSITY, HYDERABAD – 500 007.

No. 108 /Admin./UCE/2024

Date: 12-01-2024

### 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 January – April 2024 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 VIII semester students who are pursuing their full-time internship in recognised companies** 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 VIII Semester 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 29-01-2024** and **Set 2 is 19-02-2024**. 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.

Principal

PRINCIPAL

Univ. College of Engg.(A)  
Osmania University

- 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

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

**Recognised Course List of NPTEL 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-ce24	Civil Engineering	Microwave Remote Sensing in Hydrology	12 Weeks	January 22, 2024	April 12, 2024	16 February, 2024	PG	Elective	3
noc24-ce25	Civil Engineering	Plastic Waste Management	8 Weeks	January 22, 2024	April 12, 2024	16 February, 2024	PG	Elective	3
noc24-ce28	Civil Engineering	Rock Engineering	12 Weeks	January 22, 2024	April 12, 2024	16 February, 2024	PG	Elective	3
noc24-ce11	Civil Engineering	Environmental Remediation of Contaminant sites	12 Weeks	January 22, 2024	April 12, 2024	16 February, 2024	UG/PG	Elective	3
noc24-ce17	Civil Engineering	Geosynthetics and Reinforced Soil Structures	12 Weeks	January 22, 2024	April 12, 2024	16 February, 2024	PG	Elective	3
noc24-ce07	Civil Engineering	Development and Applications of Special Concretes	8 Weeks	January 22, 2024	March 15, 2024	16 February, 2024	PG	Elective	2
noc24-ce43	Civil Engineering	Introduction to Lean Construction	4 Weeks	January 22, 2024	Feb 16, 2024	16 February, 2024	UG/PG	Elective	1
noc24-ce47	Civil Engineering	Energy Efficiency Acoustics and Day lighting in Building	12 Weeks	January 22, 2024	April 12, 2024	16 February, 2024	PG	Elective	3

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**Signature of CBoS (Autonomous)**

**Dept. Name: CIVIL ENGG UCE(A), OU**

**OSMANIA UNIVERSITY**

DEPARTMENT OF MECHANICAL ENGINEERING  
University College of Engineering (Autonomous), Osmania University, Hyderabad - 500007

Course ID	Discipline	Course Name	Duration	Course Start date	Course End date	Enrollment End date	UG/PG	Core/Elective	Credits
noc24-me03	Mechanical Engineering	Applied Thermodynamics	12 weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG	Core	3
noc24-me11	Mechanical Engineering	Manufacturing Guidelines For Product Design	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Elective	2
noc24-me12	Mechanical Engineering	Mechanical Measurement Systems	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Core	2
noc24-me16	Mechanical Engineering	Principles Of Casting Technology	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Core	2
noc24-me19	Mechanical Engineering	Steam And Gas Power Systems	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Core	2
noc24-me21	Mechanical Engineering	Two Phase Flow And Heat Transfer	4 Weeks	Jan 22, 2024	Feb 16, 2024	Jan 29, 2024	UG/PG	Elective	1
noc24-me23	Mechanical Engineering	Robotics: Basics and Selected Advanced Concepts	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-me24	Mechanical Engineering	Advanced Robotics	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-me25	Mechanical Engineering	Basics of Finite Element Analysis - II	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Elective	2
noc24-me26	Mechanical Engineering	Computational Fluid Dynamics For Incompressible Flows	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-me27	Mechanical Engineering	Computer Integrated Manufacturing	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-me32	Mechanical Engineering	Finite Element Modeling Of Welding Processes	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-me35	Mechanical Engineering	Fundamentals of combustion for propulsion	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	PG	Elective	2
noc24-me44	Mechanical Engineering	Kinematics Of Mechanisms And Machines	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Elective	2
noc24-me47	Mechanical Engineering	Manufacturing Automation	4 weeks	Jan 22, 2024	Feb 16, 2024	Jan 29, 2024	UG	Elective	1
noc24-me48	Mechanical Engineering	Manufacturing Process Technology I & II	12 weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Core	3
noc24-me56	Mechanical Engineering	Optimization from fundamentals	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	PG	Core	3
noc24-me58	Mechanical Engineering	Product Design and Manufacturing	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-me60	Mechanical Engineering	Theory Of Composite Shells	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	PG	Elective	2
noc24-me62	Mechanical Engineering	Thermal Engineering: Basic and Applied	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Core	3
noc24-me63	Mechanical Engineering	Thermodynamics	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-me68	Mechanical Engineering	Cryogenic Hydrogen Technology	8 Weeks	Feb 19, 2024	Apr 12, 2024	Feb 19, 2024	UG/PG	Elective	2
noc24-me72	Mechanical Engineering	Advanced Machining Processes	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG	Core	3
noc24-me75	Mechanical Engineering	Data-Enabled Tribological Engineering: From Experiments to Predictive Models	12 weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Core	3
noc24-me77	Mechanical Engineering	Introduction to Refrigeration and Air Conditioning	8 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Elective	2

  
 Prof. NARSIMHULU YANNE  
 Chairperson, BoS (Autonomous)  
 Dept of Mechanical Engineering  
 UCE (A), Osmania University, Hyderabad

DEPARTMENT OF ELECTRICAL ENGINEERING  
UNIVERSITY COLLEGE OF ENGINEERING

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

List of EEE dept, UCE,OU for Jan-April2024 Swayam-NPTEL Course

Course ID	Discipline	Course	Duration	Course Start Date	Course End Date	Course Enrolment ends	Levels (UG/PG)	Core/ Elective	credits
Noc24-ee18	Foundations of Wavelets and Multi rate Digital Signal Processing	(UG-PG)	4 weeks	Jan-22,2024	Feb-16, 2024	29.1.2024	(UG-PG)	Elective	01
Noc24-ee23	Optical Fiber Sensors	(UG-PG)	12 weeks	Jan22,2024	April12,2024	29.01.2024	(UG-PG)	Elective	03
Noc24-ee30	EV-Vehicle Dynamics a New	(UG-PG)	4 weeks+ 4 weeks	Jan-22,2024	March 15, 2024	29.01.2024	(UG-PG)	Elective	02
Noc24-ee39	Design of Power Electronic Converters	(UG-PG)	8 weeks	Feb 19, 2024	April 12,2024	19.02.2024	(UG-PG)	Elective	02
Noc24-ee41	Operation and planning of Power Distribution System	PG	12 weeks	Jan 22,2024	April 12,2024	29.01.2024	(PG)	Elective	03
Noc24-ee56	Industrial Autonomous and Control	(UG-PG)	12 weeks	Jan22,2024	April 12,2024	29.01.2024	(UG-PG)	Elective	03
Noc24-ee64	Digital Protection of Power system	PG	8 weeks	Jan 22,2024	March 15,2024	29.01.2024	PG	core	02

*Ju*  
15/01/2024  
15/01/2024

Email: [ecedepartmentou@osmania.ac.in](mailto:ecedepartmentou@osmania.ac.in)

Ph. 8331997307



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

No. 1095/ECE/UCE(A)/OU-2024

Dated: 04.01.2024

To  
The Principal  
University College of Engineering (A)  
Osmania University  
Hyderabad – 500007.

Dear Sir,

Sub: List of courses offered by SWAYAM–NPTEL for ECE department. - Reg.  
Ref: Letter No. 2171/Admin./UCE/2023, dated: 29.12.2023.

With reference to the letter cited above I am here with sending final list of courses offered by SWAYAM – NPTEL for ECE department as an attachment to this letter. This is for your information.

Thanking you,

*P. Venkatesh*  
Chairperson, BOS (A) 04/01/24  
Department of ECE, UCE(A), OU  
CHAIRMAN  
BOARD OF STUDIES  
Dept. of Electronics & Commn. Engg  
Osmania University,  
Hyderabad-500 007.

Copy to:

1. The Head, ECE, UCE(A). OU
2. The Director, Examination Cell, UCE(A). OU
3. Co-ordinator, SPOC, Local Chapter, NPTEL, UCE(A). OU

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*W. S. S. S. S.*



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

Recognized Course (REGULAR)

List of ECE department, UCE, OU for JAN-APRIL 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-ee13	Electrical and Electronics Engineering	Analog circuits	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee18	Electrical and Electronics Engineering	Foundations of Wavelets and Multirate Digital signal Processing	04 Weeks	Jan 22, 2024	Apr 16, 2024	Jan 29, 2024 - 5pm	UG/PG	Core	1
noc24-ee20	Electrical and Electronics Engineering	Microwave Integrated Circuits	08 Weeks	Jan 22, 2024	Apr 15, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	2
noc24-ee22	Electrical and Electronics Engineering	Multirate DSP	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee27	Electrical and Electronics Engineering	Semiconductor device modeling and Simulation	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee29	Electrical and Electronics Engineering	CMOS Digital VLSI Design	08 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	2

*P. Koti Lakshmi*  
Prof. P. Kōti Lakshmi  
Chairperson, BOS (A)  
ECE, UCE, OU

Course Id	Discipline	Course Name	Duration	Course Start Date	Course End Date	Course enrolment ends	Level (UG/PG)	Core/ Elective	Credits
noc24-ee38	Electrical and Electronics Engineering	Computer Vision and Image Processing – Fundamentals and Applications	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee44	Electrical and Electronics Engineering	Design and analysis of VLSI Subsystems	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee45	Electrical and Electronics Engineering	Sensors and Actuators	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee46	Electrical and Electronics Engineering	Microprocessors and Microcontrollers	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG	Core	3
noc24-ee46	Electrical and Electronics Engineering	Optical Wireless Communications for Beyond 5G Networks and IoT	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee59	Electrical and Electronics Engineering	Optical wireless communications for beyond 5G networks and IoT	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3
noc24-ee63	Electrical and Electronics Engineering	VLSI Signal Processing	08 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	2
noc24-ee67	Electrical and Electronics Engineering	EMI/EMC and Signal Integrity: Principles, Techniques and Applications	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024 - 5pm	UG/PG	Elective	3

A. *[Signature]*  
 Prof. P. Koti Lakshmi  
 Chairperson, BOS (A)  
 Department of ECE, UCE. OU  
 500 007.



**Department of Computer Science & Engineering**  
**University College of Engineering(A), Osmania University, Hyderabad-007**

Prof.K.Shyamala  
Chairperson, B.o.S in CSE(A),  
University College of Engineering, Osmania University  
Hyderabad – 500 007

Office No. 040-27097577  
Fax: 040-27095179  
Grams :UNICOLENG

Lr. No. 34/CSE/2024

Date: 11-01-2024

To

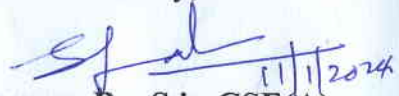
The Principal,  
Univ. College of Engineering (A),  
Osmania University,  
Hyderabad - 500 007

Sir,

I am herewith sending the SWAYAM-NPTEL courses for B.E – PE-VII, PE-VIII, OE-III and B.E (Working Professional) for the academic year 2023-24.

Thanking you,

Yours faithfully,

  
Chairperson, B.o.S in CSE(A)  
Dept. of CSE, UCE(A),  
OU, Hyd - 07

**CHAIRMAN**  
**Board of Studies in CSE (A)**  
**Dept. of Computer Science & Engg.**  
**College Of Engg., O.U. Hyderabad.**

Enclosure :

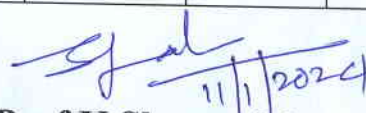
1. The Director of Evaluation, UCE, OU
2. The Coordinator (SPOC), NPTEL



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

**Recognised Course List of CSE Dept., UCE, OU for**  
**JANUARY-APRIL 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
<b>Professional Elective – VII -Semester</b>									
noc24-cs01	Computer Science and Engineering	Foundations of Cryptography	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-cs15	Computer Science and Engineering	Blockchain and its Applications	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-cs20	Computer Science and Engineering	Data Analytics with Python	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-cs56	Computer Science and Engineering	Social Networks	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG	Elective	3
<b>Professional Elective – VIII - Semester</b>									
noc24-cs08	Computer Science and Engineering	An Introduction to Artificial Intelligence	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG	Elective	3
noc24-cs30	Computer Science and Engineering	GPU Architectures And Programming	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-cs33	Computer Science and Engineering	Introduction to Embedded System Design	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-cs34	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	PG	Elective	3
<b>Open Elective-III for CSE</b>									
noc24-cs35	Computer Science and Engineering	Introduction To Internet Of Things	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG	Elective	3
noc24-cs57	Computer Science and Engineering	The Joy of Computing using Python	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
<b>B.E - (Working Professionals)</b>									
noc24-cs43	Computer Science and Engineering	Programming in Java	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG	Elective	3

  
**(Prof.K.Shyamala)**  
 Signature of CBoS (Autonomous)  
 Dept. of Computer Science & Engg.  
 College Of Engg., O.U. Hyderabad.  
**UCE, OSMANIA UNIVERSITY**

**Department of BIOMEDICAL ENGINEERING**

**University College of Engineering**

**Osmania University, Hyderabad – 500 007**

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

**List of BME Dept., UCE, OU for**

**JAN-APRIL 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-bt15	Biotechnology and Bioengineering	Bioinformatics: Algorithms and Applications	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Core	3
noc24-bt18	Biotechnology and Bioengineering	Cell Biology: Cellular organization, division and processes	12 Weeks	Jan 22, 2024	Mar 15, 2024	Jan 29, 2024	UG/PG	Core	3
noc24-bt37	Biotechnology and Bioengineering	Microsensors, Implantable Devices and Rodent Surgeries for Biomedical Applications	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3
noc24-bt07	Biotechnology and Bioengineering	Molecular Biology	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG	Core	3
noc24-bt19	Biotechnology and Bioengineering	Computational Systems Biology	12 Weeks	Jan 22, 2024	Apr 12, 2024	Jan 29, 2024	UG/PG	Elective	3



**Signature of CBoS (Autonomous)**

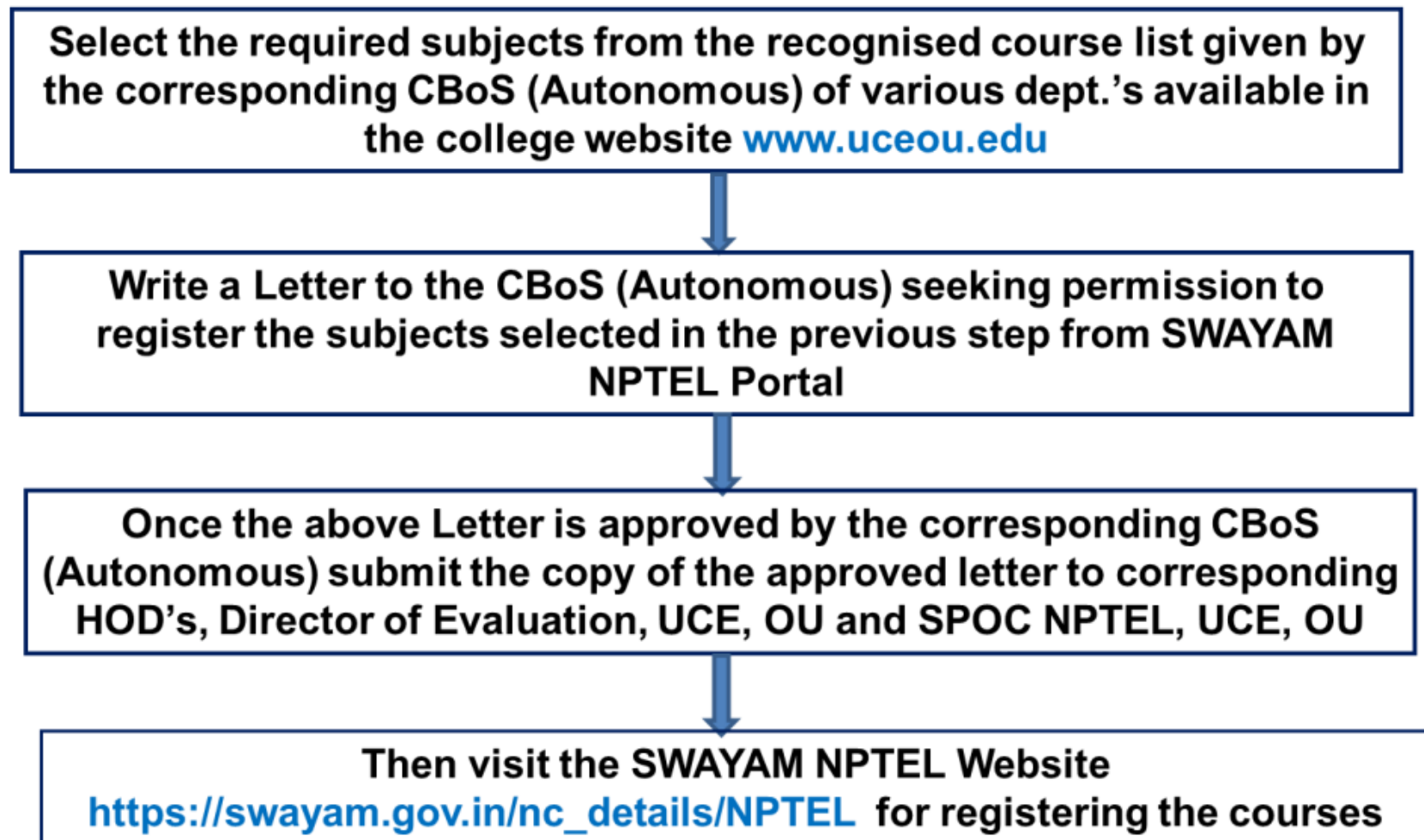
**Dept. Name: BME, UCE (A), OU**

**OSMANIA UNIVERSITY**

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

## 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.

<b><u>Name</u></b>	<b><u>Designation, Branch</u></b>	<b><u>Email id</u></b>
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