



राष्ट्रीय प्रौद्योगिकी संस्थान आंध्रप्रदेश
NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH
Near National Highway No. 16, Kadakatla, Tadepalligudem – 534101
West Godavari District, Andhra Pradesh, India

No. NITANP/SEMA/2023-24/1278

Date: 22/12/2023

NOTICE

Sub: Minor Degree Programme for the AY 2023-24 (applicable for 2022 admitted B.Tech. Students).

Ref: NIT Andhra/AA/2021-22/16, dated: 07/12/2022

All the II B.Tech. students of AY 2023-24 are hereby informed that the students are given the option of selecting a minor programme as per the modalities below.

Modalities for the Minor Programme (B.Tech.)

1. Students with a minimum CGPA of 7.5 at the end of I B.Tech. II Semester (with no backlog courses) are eligible for minor degree program selection process.
2. Eligible students have to register their options for the minor programme, indicating the priority for each option in the order starting from 1(highest priority) up to 4/5(lowest priority). You will receive a google form link for each department to register your options by email.
3. **The deadline for filling the google form is 29th December 2023, 5 PM.**
4. A student can edit the google form submission any number of times, but the latest submission at the time of deadline is considered for scrutiny.
5. The selection process for minor programme is based on CGPA (upto I B. Tech II Semester) subjected to the constraints of minimum of 5 students to a maximum of 60 students for each minor specialization.
6. The courses listed in each Minor Programme course structure (additional 16 credits) are over and above the regular B.Tech. programme credit requirements (162 credits).
7. The grades/GPA for minor programmes shall be mentioned separately in the marks list.
8. Any grievances in the allotment of the minor degree programme should be brought to the notice of Dean (Academic Affairs) within 1 week of the notification of allotment (forwarded through respective HoD).



राष्ट्रीय प्रौद्योगिकी संस्थान आंध्रप्रदेश
NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH

Near National Highway No. 16, Kadakatla, Tadepalligudem – 534101

West Godavari District, Andhra Pradesh, India

MINOR DEGREE SPECIALIZATIONS

**Minor Specialization: Environmental Sustainability
(Department of Civil Engineering)**

Courses for Minor in Environmental Sustainability							
S. No.	Course Code	Course Name	L	T	P	C	Offered SEM
01	CEM261	Sustainability for Engineers	4	0	0	4	4th
02	CEM311	Basics of Life Cycle Analysis	4	0	0	4	5th
03	CEM361	Environmental Impact Assessment	4	0	0	4	6th
04	CEM411	Basics of Climate Change	4	0	0	4	7th
05	CEM412	Integrated Solid Waste Management	4	0	0	4	7th
		Total				20	

**Minor Specialization: Software Engineering
(Department of Computer Science and Engineering)**

Courses for Minor in Software Engineering							
S. No.	Course Code	Course Title	L	T	P	Credits	Offered Sem
1	CSM251	Algorithmics and Programming	2	0	2	03	4th
2	CSM301	Object Oriented Programming	3	0	0	03	5th
3	CSM302	Object Oriented Programming Lab	0	1	2	02	5th
4	CSM351	Database Management Systems	2	0	2	03	6th
5	CSM401	Web Programming	2	0	2	03	7th
6	CSM402	Software Engineering	1	0	2	02	7th

**Minor Specialization: Artificial Intelligence for Signal Processing Applications
(Department of Electronics & Communication Engineering)**

Courses for Minor in Artificial Intelligence for Signal Processing Applications							
S. No	Course Code	Course Title	L	T	P	Credits	Offered Sem
1	ECM251	Statistical Foundations for Signal Processing and Machine Learning	4	0	0	4	4th
2	ECM301	Non-Linear Programming	3	0	3	3	5th
3	ECM351	Machine Learning for Signal Processing applications	4	0	0	4	6th
4	ECM401	Digital Modulation and Coding	3	0	0	3	7th
5	ECM402	AI for Signal Processing applications Lab	0	0	2	2	7th
		Total	14	0	5	16	



राष्ट्रीय प्रौद्योगिकी संस्थान आंध्रप्रदेश
NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH
Near National Highway No. 16, Kadakatla, Tadepalligudem – 534101
West Godavari District, Andhra Pradesh, India

Minor Specialization: Electric Vehicles
(Department of Electrical Engineering Department)

Courses for Minor in Electric Vehicles							
S.No	Course Code	Course Title	L	T	P	Credits	Offered Sem
1	EEM251	Principles of Energy Conversion and Transmission in Vehicles	3	0	0	03	4th
2	EEM301	E-Mobility Developments and Standards	3	0	0	03	5th
3	EEM302	Battery Energy Storage and EV Charging Systems	3	0	0	03	5th
4	EEM351	Electric Drives for EVs	3	0	0	03	6th
5	EEM352	EV Battery Charging Systems Lab	0	1	2	02	6th
6	EEM401	EV Propulsion Systems Lab	0	1	2	02	7th
TOTAL						16	

Minor Specialization: Automation and Robotics
(Department of Mechanical Engineering)

Courses for Minor in Automation and Robotics							
S. No.	Course Code	Course Title	L	T	P	Credits	Offered Sem
1	MEM251	Mechanisms and Machines	3	0	0	03	4th
2	MEM301	Automation Technologies in Industries	3	0	0	03	5th
3	MEM351	Mechatronic Systems	3	0	0	03	6th
4	MEM352	Mechatronics Lab	0	0	3	02	6th
5	MEM401	CNC and Robotics	3	0	0	03	7th
6	MEM402	CNC and Robotics Lab	0	0	3	02	7th
TOTAL			12	0	06	16	

This notice is issued with the approval of competent authority.

Sd/-
Dean
(Academic Affairs)

Copy To

1. All Heads of the Departments
2. Associate Dean (AA) for circulation and necessary actions.
3. Associate Dean (WNT) for uploading on the Institute website.
4. Office file.