



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. NIT Andhra/AA/2021-22/ 17

Date: 11-01-2022

NOTICE

Sub: Minor Degree Programme for II B.Tech. students of the AY 2021-2022

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

All the II B.Tech. students of AY 2021-2022 are hereby informed that the students are given the option of selecting a minor programme as per the modalities below. Students are further informed to attend an **online meeting (via the zoom link sent to Institute email) in this regard on 12/01/2022 (Monday) at 4 PM.**

Modalities for the Minor Degree 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) upto 5(lowest priority). Use the link (<https://forms.gle/7w45YEUAZe7xpPtv5>) to register your options.
3. **The deadline for filling the google form is 16th January 2022 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. A student can opt for any of the minor programmes irrespective of the parent department of the student.
6. 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.
7. The classes for minor degree programme shall commence from 20/01/2022.
8. 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).



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- The grades/GPA for minor programmes shall be mentioned separately in the marks list.
- Any grievances in the allotment of the minor degree programme should be brought to the notice of Dean (Academic Affairs) with in 1 week of the notification of allotment (forwarded through respective HoD).

MINOR DEGREE SPECIALIZATIONS

Minor in Geoinformatics (Civil Engineering)

| Courses for Minor | | | | | | | |
|-------------------|-------------|-------------------------------|-----------|----------|----------|---------|-----------------|
| S. No | Course Code | Course Title | L | T | P | Credits | Offered Sem |
| 1 | CEM251 | Unmanned Aerial Systems (UAS) | 4 | 0 | 0 | 4 | 4 th |
| 2 | CEM301 | Principles of Remote Sensing | 4 | 0 | 0 | 4 | 5 th |
| 3 | CEM351 | Digital Image Processing | 4 | 0 | 0 | 4 | 6 th |
| 4 | CEM401 | Fundamentals of GIS | 4 | 0 | 0 | 4 | 7 th |
| | | Total | 16 | 0 | 0 | | |

**Minor in Software Engineering
(Computer Science and Engineering Department)**

| Courses for Minor | | | | | | | |
|-------------------|-------------|---------------------------------|-----------|----------|-----------|-----------|-------------|
| S. No | Course Code | Course Title | L | T | P | Credits | Offered sem |
| 1 | CSM201 | Algorithmics and Programming | 2 | 0 | 2 | 03 | 3rd |
| 2 | CSM251 | Object Oriented Programming | 3 | 0 | 0 | 03 | 4th |
| 3 | CSM301 | Database Management Systems | 2 | 0 | 2 | 03 | 5th |
| 4 | CSM351 | Web Programming | 2 | 0 | 2 | 03 | 6th |
| 5 | CSM252 | Object Oriented Programming Lab | 0 | 1 | 2 | 02 | 4th |
| 6 | CSM352 | Software Engineering | 1 | 0 | 2 | 02 | 6th |
| | | Total | 10 | 1 | 10 | 16 | |



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

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Minor in Artificial Intelligence for Signal Processing Applications
(Electronics & Communication Engineering Department)

| Courses | | | | | | | |
|---------|-------------|--|-----------|----------|----------|-----------|----------------------------------|
| S. No | Course Code | Course Title | L | T | P | Credits | Offered sem |
| 1 | ECM201 | Statistical Foundations for Signal Processing and Machine Learning | 4 | 0 | 0 | 4 | 4th |
| 2 | ECM202 | Non-Linear Programming | 3 | 0 | 3 | 3 | 5th |
| 3 | ECM301 | Machine Learning for Signal Processing applications | 4 | 0 | 0 | 4 | 6th |
| 4 | ECM302 | Digital Modulation and Coding | 3 | 0 | 0 | 3 | 7th |
| 5 | ECM351 | AI for Signal Processing applications Lab | 0 | 0 | 2 | 2 | 6 th /7 th |
| | | Total | 14 | 0 | 5 | 16 | |

Minor Specialization: Electric Vehicles
(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 | EEM351 | Electric Drives for EVs | 3 | 0 | 0 | 03 | 6th |
| 4 | EEM401 | Battery Energy Storage and EV Charging Systems | 3 | 0 | 0 | 03 | 7th |
| 5 | EEM302 | EV Battery Charging Systems Lab | 0 | 1 | 2 | 02 | 5th |
| 6 | EEM402 | EV Propulsion Systems Lab | 0 | 1 | 2 | 02 | 7th |
| | | TOTAL | 12 | 2 | 4 | 16 | |



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Minor in Automation and Robotics
(Mechanical Engineering Department)

| Courses for Minor in Automation and Robotics | | | | | | | |
|--|-------------|---------------------------------------|-----------|----------|-----------|-----------|-----------------|
| S.No | Course Code | Course Title | L | T | P | Credits | Offered Sem |
| 1 | MEM201 | Mechanisms and Machines | 3 | 0 | 0 | 03 | 4 th |
| 2 | MEM251 | Automation Technologies in Industries | 3 | 0 | 0 | 03 | 5 th |
| 3 | MEM301 | Mechatronic Systems | 3 | 0 | 0 | 03 | 6 th |
| 4 | MEM302 | Mechatronics Lab | 0 | 0 | 3 | 02 | 6 th |
| 5 | MEM351 | CNC and Robotics | 3 | 0 | 0 | 03 | 7 th |
| 6 | MEM352 | CNC and Robotics Lab | 0 | 0 | 3 | 02 | 7 th |
| | | TOTAL | 12 | 0 | 06 | 16 | |

This notice is issued with the approval of competent authority.

Sd/-
Dean
(Academic Affairs)
NIT Andhra Pradesh

Copy To

1. AD- UG (A&E) Kindly circulate the notice.
2. All Heads of the Departments
3. PS to Director for kind information to the Director
4. Registrar office for kind information