

#### SONTYAM, Pendurthi - Anandap

#### 2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The program outcomes adhere to the guidelines set by the National Board of Accreditation (NBA). Additionally, each program has developed two specific outcomes known as program-specific outcomes (PSOs) in alignment with the requirements specified by the governing society. These statements, encompassing both POs and PSOs, are effectively communicated to all stakeholders through appropriate channels. In regards to Course Outcomes, the university's curriculum outlines four to six course outcomes for every course. However, these are systematically revised to align with the Revised Bloom's Taxonomy (RBT) and are standardized to six outcomes for all courses. This revision process is undertaken whenever a new curriculum is introduced for the first time by the respective course instructor, faculty who have already handled the courses along with the program chair.

The institute places significant emphasis on meticulous curriculum and syllabus development, following a standardized procedure outlined in a Standard Operating Procedure (SOP). Faculty members are welltrained and empowered to carry out this curriculum enhancement exercise. Course outcomes are formulated, and a 2D mapping, which includes assessment of both knowledge and cognitive dimensions, is conducted to ensure alignment with the program outcomes and the depth of knowledge coverage.

## NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY



#### (AUTONOMOUS)

(Approved by AICTE, New Deihi || Affiliated to JNTUK, Kakinada || An ISO 9001, ISO 45001 Certified Institution) Recognised Under Section 2 (f) & 128 of the UGC Act, 1956 || NAAC Accredited with 'A' Grade (3.10/4.00)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING Vision

vision

To become Centre of excellence for technically competent, innovative computer engineers

#### Mission

- To provide quality education and spread professional & technical knowledge, leading to a career as computer professionals in different domains of industry, governance and academia
- 2. To provide state-of-art environment for learning and practice

NSRIT

 To impart hands on training in latest methodologies and technologies as per industry requirements

#### **Program Educational Objectives (PEOs)**

- O) Exhibit new age talents that use critical thinking and problem-solving skills in the rapidly changing tech landscape demands dynamism in addition to the application of fundamental and conceptual knowledge meeting client business requirements
- PED2. Sustain their satisfactory professional career in their own start-ups or as a team member/ team lead in an IT or allied industry
- PED3 Engage in self-directed learning and advanced research based studies relevant to the demand driven need of the industries for their professional and career accomplishments



#### NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

NSRIT



(Approved by AICTE, New Delhi || Affiliated to JNTUK, Kakinada || An ISO 9001, ISO 45001 Certified Institution) Recognised Under Section 2 (f) & 12B of the UGC Act, 1956 || NAAC Accredited with 'A' Grade (3.1014.00)

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINERING PROGRAM OUTCOMES (POs)

- Engineering Knowledge ; Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Problem Analysis. Identify,formulate,research Herature,and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science, and engineering sciences.
- Device Development of Solutions: Device solutions for complex engineering problems and design system components or processes that most the specified reads with appropriate consideration for the public health and safety and the cultural, societal, and environmental considerations.
- 4. Conduct Investigations of Complex Problems : Use research based knowledge and research memods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conductions.
- Modern Tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the imptations.
- The Engineer and Society : Apply reasoning informed by the contrastual knowledge to assess societal health, sufery, legal and cultural issues and the consequent responsibilities network to the professional engineering practice.
- T. Environmenta and Bustainability: Understand the impact of the professional engineering solutions and environmental conservation demonstrate the knowledge of, and need for sustainable development.
- Ethes: Apply intere principles and commit to professional affect and requirebbilities and norms of the engineering practice.
- Individual and some Work-Function infactively as an individual, and as a member or leader in diverse teams an in multiclooplates pattings.
- 10 Communicate or sumschools effectively tendemplex anglesaring activities with the engineering community an writi society all for, such as, being size to comprished and write effective reports and design documentation, make effective present and, and give and receive place instructions.
- 11 Project Manual command Finance, Domonstrate knowledge and understanding of the engineering and management policities and apply these to one slown work, as a member and leader in a team, to manage projects and the utilitatioprimary environments?
- Life-long Lean Prophysics the need on and have the preparation and ability to angage in independent and life-long learning preproadest context at the mological change.

#### OGRAMME SPECIFIC OUTCOMES (PSOs)

C. Alles to apply the two space knowledge of Clinicators Solation and Engineering and the Ioundational principles of software development to prevedu statematic aplications for the two will workd technical challenges in the tech landecape by maintaining professional standards, which and imports

2. Able to adopt to technological changes by initiating anti-paced learning to meet the industry demands.

P

# INSTITUTE OF TECHNOLOGY

NAAC

Approved by AICTE, New Delhi || Affiliated to JNTUK, Kakinada || An ISO 9001, ISO 45001 Certified Institution) Recognised Under Section 2 (f) & 128 of the UGC Act, 1955 || NAAC Accredited with 'A' Grade (3.10/4.00)

NSRIT

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINERING PROGRAM OUTCOMES (POs)

- Engineering Knowledge / Apply the knowledge of mathematics, science, engineering fundamentalis, and an angineering specialization to the solution of complex angineering problems.
- Problem Analysis Identify formulate research literature and analyse complex engineering problems reachin substantiated conclusions using first principles of mathmatics, natural science, and engineering sciences.
- 3 Design: Development of Solutions: Design solutions for complex engineering problems and design syste components or processes that meet the specified heads with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- Conduct Investigations of Complex Problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of state, and synthesis of the information to provide valid conductions.
- Modern Tool usage Create, select, and apply appropriate techniques, resources, and modern angineering and IT tools including prediction and motioning to complex angineering activities with an understanding of the limitations.
- The Engineer and Society : Apply reasoning informed by the contactual knowledge to assess societia health, tafety, legal and icultural results and the consequent responsibilities relevent to the professional engineering practice.
- Environmenta and Sustainability: Understand the impact of the protessional engineering solutions and environmental cities ab, and demonstrate the scowledge of and need for sustainable development.
- Ensex. Apply intend principles and commit to professional whice and responsibilities and norms of the engineerin practice.
- Individual answin Work:Function effectively as an individual, and as a member or leader in diverse teams ar in multidiscipling plettings.
- 10 Communications communicate effectivity on comprise engineering activities with the engineering community and with society at these such as, being little to comprehend and write effective reports and design documentation make effective present one, and give and receive class instructions.
- 11. Project Manage and and Finance: Demonstrate knowledge and understanding of theengineering and management in oper and apply mese to one s own work, as a member and leader in a team, to manage projects and knowledge indecipitnary environmental?
- 12 Lite-long Lean or Filecognize the need to, and have the preparation and adding to engage in independent and life-long learning to be broadest context of the head goal change.

#### PROGRAMME SPECIFIC OUTCOMES (PSOs)

- Active to supply the Terrefactal knowledge of Constants for ence and Engineering and the buildadonel principles of software development to provide sustainable solutions for the real world technical challenges in the tech landacape by mentaining buildeneous standards, emissive values and megnes.
- 2 Abilitits askept to literandogical champes by millating self-paced learning to meet the industry demands.









# INSTITUTE OF TECHNOLOGY

Statistics in

10.00

Personal in 1872, And Sold (1978) and a price, connected in the Review Content (1978) in the local state of the local state of

# DEPARTMENT OF CIVIL ENGINEERING PROGRAM OUTCOMES (PON)

- A Partners of the second distance of the seco
- A Real of the second second in the second second
- A Description of the local distance in the second s
- A Description of Despire Public Transmission And Street and Street
- a dissert had keeps (here, small out used and successive energies, income , we will a support a set 1 keeps services a substances for the set of the se
- A. Die Destant and house a date wanting, the set of the particular particular in the set of the
- 2 The instruments of the property is near the second is the property of the
- I have not recovery and second in a dependent of a dependent of a loss of the second second
- 1. Manufacture and the Area Area and the second of the second se second sec
- which is a product of any set is a set of the set of th
- Name and and the party of the second of the
- In the large latter in the same to be set it and the interest in the latter is in the latter is in the same is in the same is in the latter is

## PROGRAM SPECIFIC OF ICOM 5-9504

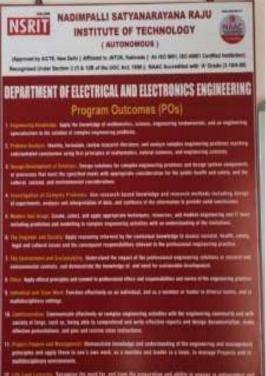
- Destaurs the property of the property of
- A REAL OF A DESCRIPTION OF A DESCRIPTION

Vision, Mission, PO's, PEO's and PSO's in EEE Department

1. Department Staff room, Room No:303



2. In Room no 301:





It is any barries. Accepted for meeting, and the projection of down to support a subpressed on the long barries of the located values of backelouid charge. 3. In Room no 302:

