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NANDYAL
ESTD - 2007
EDUCATION FOR PEACE & PROGRESS

SANTHIRAM ENGINEERING COLLEGE

(AUTONOMOUS)

NANDYAL

R & D Policy



RESEARCH | INNOVATION | DEVELOPMENT | COLLABORATION | EXCELLENCE

Innovate • Inspire • Impact

SANTHIRAM ENGINEERING COLLEGE:: NANDYAL
(AUTONOMOUS)
Approved by AICTE : New Delhi, 2(f) & 12(B) recognition by UGC Act, 1956
Accredited by NAAC (Grade-A), Accredited by NBA (ECE & CSE)
ISO 9001:2015 Certified Institution,
Permanently Affiliated to JNT University, Ananthapuramu.
NH-40, Nandyal Dist– 518501, A. P.

RESEARCH & DEVELOPMENT (R&D) POLICY

1.PREAMBLE

Santhiram Engineering College is committed to promoting a strong culture of research, innovation, consultancy, entrepreneurship, and academic excellence among faculty members and students. The institution recognizes that research and development activities play a significant role in improving the quality of technical education, societal development, industrial growth, and national progress.

The Research and Development (R&D) Cell of Santhiram Engineering College has been established to create an ecosystem that encourages innovative thinking, interdisciplinary research, sponsored projects, patent filing, publications, consultancy, and collaborations with industries and academic institutions.

2. VISION AND MISSION OF R&D CELL

Vision:

To build a strong research ecosystem that fosters innovation, creativity, and knowledge creation, becoming a centre of excellence in research that contributes to technological advancement and societal development.

Mission:

- To promote a strong research culture by encouraging faculty and students to engage in quality research, innovation, and knowledge creation, fostering critical thinking and problem-solving skills.
- To enhance research output by motivating publications in reputed journals and conferences while supporting patents, copyrights, and other intellectual property rights
- To facilitate funded research by guiding faculty in proposal writing, submission, and execution of projects from government and private funding agencies.
- To strengthen industry collaboration by establishing partnerships for consultancy, joint research, and real-time problem-solving opportunities for faculty and students.
- To develop innovation and entrepreneurship by supporting idea generation, product development, incubation activities, and transforming research into practical and societal applications.

3. OBJECTIVES:

The Research & Development and Intellectual Property Rights (R&D & IPR) Cell at Santhiram Engineering College (Autonomous), Nandyal aims to foster a strong research culture, encourage innovation, and facilitate meaningful collaboration between academia and industry. The cell serves as a central hub for guiding faculty and students in conducting impactful research, securing external funding, protecting intellectual property, and translating ideas into real-world solutions.

The objectives of R&D & IPR includes:

- To increase the number and quality of research publications in reputed journals and conferences
- To promote intellectual property generation through patents, copyrights, and innovative product development.
- To encourage faculty to undertake funded research projects from government and private agencies.
- To strengthen industry–institute interaction through consultancy, collaborations, and MoUs.
- To involve students in research activities and develop innovation, problem-solving, and entrepreneurial skills.

4. ROLES AND RESPONSIBILITIES

A. Policy Development and Research Promotion

- Prepare, review, and update the Research Policy and Consultancy Policy in consultation with stakeholders.
- Motivate and support faculty and students to publish research work in reputed indexed journals and conferences.
- Identify emerging research areas and guide faculty/students on latest technologies and research methodologies.
- Organize/coordinate workshops, seminars, and awareness programs on Research Methodology, Funding Opportunities, and Intellectual Property Rights (IPR).
- Coordinate with Heads of Departments (HODs) for organizing National and International Conferences, seminars, and research-oriented events.

B. Research Funding and Project Management

- Create awareness about funding agencies and guide faculty in proposal preparation, submission, and follow-up until project completion.
- Track notifications/calls for proposals from various funding agencies and disseminate timely information to faculty members to facilitate submission within stipulated deadlines.
- Evaluate and recommend research proposals/projects for submission to funding agencies for financial assistance.
- Maintain department-wise and year-wise records of proposals submitted to various funding agencies.
- Monitor ongoing funded projects/IRG projects and submit progress reports to concerned authorities.
- Encourage and coordinate consultancy, seed funding and Internal revenue generation (IRG) activities with HODs.
- Maintain records and progress reports of consultancy projects, seed funding & IRG activities

C. Publications and Documentation

- Collect, verify, and maintain faculty and student publication details (department-wise, year-wise, indexing, citations, and web links) in soft and hard copies.
- Maintain consolidated records related to research outputs, achievements, and reports as required by higher authorities/regulatory bodies.

D. Innovation, Patents and IPR

- Conduct awareness programs and provide support on patent drafting, filing, and commercialization.
- Facilitate National/International patent filing and strive for at least one patent grant per academic year.
- Identify and shortlist innovative student/faculty projects suitable for patent filing.
- Maintain records of patents filed, published, and granted (department-wise and year-wise).

E. Research Collaboration and Academic Support

- Promote and coordinate collaborations with National and International research laboratories/industries through MoUs and joint research activities.
- Support and maintain records of research supervisors allotted research scholars, and faculty pursuing Ph.D. programs.
- Provide guidance for interdisciplinary research, innovation activities, and technology development initiatives.

Records to be Maintained in R&D Department

The R&D Cell shall maintain the following records/files in both soft and hard copies:

- Research Policies, Consultancy Policies, and related circulars/orders.
- Details of Research Supervisors and their Scholars.
- Details of Faculty Pursuing Ph.D. (University, research area, status).
- MoUs/Collaborations with National and International research laboratories/industries/organizations/others.
- Faculty and Student Publications (journal/conference publications with indexing and citations) in the prescribed format.
- Patents Filed / Published / Granted records.
- Funding Proposals Submitted to various agencies and sanctioned projects data.
- Consultancy Projects undertaken by faculty.
- Internal Revenue Generation (IRG) submitted/awarded records.
- Progress reports of funded projects, consultancy, and IRG activities.
- Records related to workshops, conferences, FDPs, research methodology and IPR programs conducted.
- Department files, statutory reports, and other records as instructed by Higher Authorities/Regulatory Bodies from time to time.

5. SPONSORED RESEARCH AND FUNDING

Faculty members are encouraged to submit research proposals to agencies such as AICTE, ANRF, DST, SERB, DRDO, ISRO, UGC, MSME, DBT, and CSIR.

S.No	Funding agency	Call for Research Proposals
1	ANRF	The Electronic Project Proposal Management System, For ANRF
2	DST	Call for Proposals | Department Of Science & Technology
3	India Science and Technology & Innovation (ISTI)	Home | India Science, Technology & Innovation - ISTI Portal
4	DRDO	Schemes and Services | Defense Research and Development Organization - DRDO, Ministry of Defense, Government of India

5	ISRO	www.isro.gov.in/SubmissionofResearchProposal.html
6	AICTE	aicte-india.org/schemes/staff-development-schemes
7	ISRO Grant for Conference/ workshop/ seminar	Grants for Conference / Workshop / Seminars / Symposia
8	ISRO	https://www.isro.gov.in/academia.html
9	Indian Science and Technology	Home | India Science, Technology & Innovation - ISTI Portal
10	IISC	https://iisc.ac.in/funding-agencies/
11	CSIR National Research	Explore, Imagine, Engineer | CSIR - NAL | Govt. Of India
12	DBT	Department of Biotechnology
13	ICMR	https://www.icmr.gov.in/post/call-for-investigator-initiated-research-proposals-for-icmr-follow-on-intermediate-extramural-grants-icmr-follow-on-nischayak-anveshan-extramural-grants-2026-last-date-march-20-2026-5-00-pm-ist
14	CSIR	https://www.csir.res.in/en/News/Call-for-proposals/Announcements/small-immediate-need-grants-last-date-throughout-year-2025
15	IGSTC	https://www.igstc.org/home/wiser_old
16	DST	https://onlinedst.gov.in/
17	ICSSR	Home | Indian Council of Social Science Research - ICSSR

6. CONSULTANCY AND IRG

Santhiram Engineering College encourages consultancy services and Internal Revenue Generation (IRG) activities to strengthen industry–institute interaction, promote applied research, provide technical solutions to society and industries, and generate revenue for institutional development. Consultancy activities enable faculty members and departments to apply their expertise and research outcomes to solve real-world industrial, technological, and societal problems.

The institution recognizes consultancy as an important academic and professional activity that enhances practical exposure, improves research quality, encourages innovation, and establishes long-term collaborations with industries, government organizations, research laboratories, startups, NGOs, and other agencies.

Objectives

The major objectives of Consultancy and IRG activities are:

1. To strengthen collaboration between academia and industry.
2. To encourage faculty members to utilize their expertise for industrial and societal benefit.
3. To provide technical solutions, testing, training, and advisory services.
4. To promote applied research, innovation, and technology transfer.
5. To create opportunities for student internships, live projects, and industrial exposure.
6. To generate additional revenue for research and institutional development.
7. To enhance institutional reputation through industrial and societal engagement.

Consultancy Activities

Faculty members and departments may undertake consultancy assignments in areas such as:

- Technical Consultancy
- Research and Development Services
- Product Design and Development
- Software Development and Testing
- Industrial Problem Solving
- Testing and Calibration Services
- Survey and Field Studies
- Data Analysis and Simulation
- Training Programs and Skill Development
- Prototype Development
- Energy Audits and Environmental Studies
- Entrepreneurship and Startup Mentoring
- Curriculum Development and Technical Reviews

Consultancy Approval Procedure

1. Faculty members intending to undertake consultancy work shall submit a proposal through the Head of the Department to the R&D Cell.
2. The proposal shall include details such as:
    - Title and nature of consultancy work
    - Client/organization details
    - Scope of work and duration
    - Budget and financial details
    - Infrastructure and laboratory requirements
    - Expected outcomes
3. The proposal shall be reviewed by the R&D Cell and submitted to the Principal for approval.
4. Consultancy assignments shall not affect regular academic responsibilities.
5. All consultancy projects shall be properly documented and monitored by the R&D Cell.

Internal Revenue Generation (IRG)

Internal Revenue Generation activities may include:

- Consultancy services
- Sponsored training programs
- Certification courses
- Testing and calibration services
- Research and development activities
- Skill development programs
- Industry-supported laboratories
- Prototype and product development
- Technical workshops and industrial training programs

The institution encourages all departments and faculty members to actively participate in consultancy and IRG activities for promoting innovation, industry interaction, research excellence, and sustainable institutional growth.

7. PUBLICATION POLICY

Santhiram Engineering College strongly believes that recognition, motivation, and financial support are essential for promoting a vibrant research culture among faculty members and students. The institution encourages quality research, innovation, consultancy, patent filing, entrepreneurship, and societal impact activities through various incentive schemes, awards, and support mechanisms.

The institution shall provide financial assistance, recognition, infrastructure support, and academic encouragement to faculty members and students who actively contribute to research and development activities.

A. Faculty Incentives

The institution encourages faculty members to undertake quality research, funded projects, consultancy activities, publications, patent filing, and innovation initiatives. Faculty members contributing significantly to research and development activities may be eligible for monetary incentives, recognition, and institutional support as per approved norms.

Incentives for Research Publications

1. Monetary incentives may be provided for publications in:
    - SCI/SCIE indexed journals
    - Scopus indexed journals
    - Web of Science indexed journals
    - UGC CARE listed journals
    - Reputed international conferences and book chapters
2. Higher incentives may be considered for:
    - Publications in high-impact factor journals
    - Q1 and Q2 ranked journals
    - Highly cited publications
    - Collaborative interdisciplinary research publications

Note:

Faculty members shall ensure:

- Proper institutional affiliation in all publications.
- Publication in genuine peer-reviewed journals.
- Compliance with plagiarism and ethical standards.

Incentives for Patents and IPR

1. Financial support may be provided for:
    - Patent drafting and filing charges
    - Copyright registration
    - Trademark registration
    - Design filing and other IPR activities
2. Additional incentives may be provided for:
    - Patent publication
    - Patent grant
    - Technology transfer and commercialization
    - Product/prototype development
3. Faculty members filing patents jointly with students shall be specially encouraged.

Incentives for Funded Projects and Consultancy

1. Faculty members securing funded projects from agencies such as AICTE, ANRF, DST, SERB, DRDO, ISRO, UGC, MSME, DBT, CSIR, ICSSR, and industries may receive:
    - Institutional recognition
    - Cash incentives

    - Certificates of appreciation
    - Administrative and technical support
2. Faculty members involved in major consultancy projects and Internal Revenue Generation (IRG) activities may receive:
    - Revenue sharing benefits as per institutional norms
    - Workload relaxation, where applicable
    - Priority for laboratory and infrastructure support
3. Faculty members successfully completing funded projects may be encouraged to:
    - Publish research outcomes
    - File patents
    - Develop prototypes and products
    - Establish industry collaborations

Incentives for Conferences, Workshops, and FDPs

1. Financial assistance may be provided for faculty members to:
    - Present papers in national and international conferences
    - Attend workshops, FDPs, seminars, and training programs
    - Participate in international academic and research events
2. The support may include:
    - Registration fee reimbursement
    - Travel allowance
    - Accommodation support
    - Online conference participation support
3. Preference may be given to faculty members:
    - Presenting research papers
    - Acting as resource persons/session chairs
    - Participating in reputed institutions and international events

Research achievements may also be recognized during:

- Annual Day celebrations
- Research Day/Innovation Day events
- Faculty meetings and institutional functions

B. Student Incentives

The institution encourages students to actively participate in research, innovation, entrepreneurship, patent filing, and technical project development. Students demonstrating excellence in innovative and research-oriented activities shall receive financial, technical, and academic support.

Support for Innovative Projects and Research Activities

1. Financial support may be provided for:
    - Mini projects and major projects
    - Prototype and model development
    - Research-based student activities
    - Product design and fabrication
2. Laboratory facilities, software tools, and mentorship support shall be provided for innovative student projects.
3. Students shall be encouraged to work on:
    - Industry-oriented projects
    - Socially relevant problems
    - Emerging technologies
    - Interdisciplinary research topics

Incentives for Publications and Patents

1. Students publishing research papers in reputed journals or conferences may receive:
    - Cash incentives
    - Certificates of appreciation
    - Publication support
2. Students filing patents individually or jointly with faculty mentors may receive:
    - Patent filing support
    - Financial assistance for IPR activities
    - Recognition and awards
3. Special encouragement shall be provided for:
    - Scopus indexed publications
    - Innovative prototypes
    - Product commercialization ideas

Support for Competitions and Hackathons

The institution shall encourage students to participate in:

- National and international hackathons
- Technical symposiums
- Innovation contests
- Startup competitions
- Coding competitions
- Project expos and exhibitions

Support may include:

- Registration fee support
- Travel allowance
- Technical mentorship
- Infrastructure and laboratory support

Startup and Incubation Support

Students interested in entrepreneurship and startups shall be encouraged through:

- Innovation and incubation
- Mentorship from faculty and industry experts
- Startup awareness programs
- Prototype development assistance
- Guidance for funding and incubation schemes

The institution may facilitate participation in:

- Startup India initiatives
- MSME innovation programs
- AICTE innovation schemes
- Incubation centres and accelerators

Student Recognition and Awards

Student achievements may be showcased through:

- Project exhibitions
- Innovation fairs
- Institutional websites and newsletters
- Research and Innovation Day celebrations

The institution shall continuously review and strengthen incentive mechanisms to create a dynamic ecosystem that promotes research excellence, innovation, entrepreneurship, consultancy, and societal impact among faculty members and students.

8. SEED FUNDING AND IN-HOUSE RESEARCH PROJECTS

Santhiram Engineering College encourages faculty members and researchers to undertake innovative, interdisciplinary, and socially relevant research activities through Seed Funding and In-House Research Project schemes. The institution recognizes that initial financial support and institutional encouragement are essential for developing novel ideas, pilot studies, prototype development, product innovation, and externally funded research proposals.

The institution shall provide seed funding support to faculty members for innovative research projects, prototype development, technology development, and proof-of-concept studies in emerging areas of science, engineering, technology, management, and applied research.

Objectives

The major objectives of the Seed Funding and In-House Research Project Scheme are:

1. To promote research culture and innovation among faculty members.
2. To encourage faculty to initiate research activities in emerging technologies.
3. To support pilot studies and proof-of-concept development.
4. To improve the quality of research publications and patents.
5. To motivate faculty members to apply for external funded projects.
6. To promote interdisciplinary and industry-oriented research.
7. To facilitate prototype development, product design, and technology transfer.

Eligibility

1. All permanent faculty members of the institution are eligible to apply.
2. Faculty members may apply individually or jointly as a research team.
3. Interdisciplinary proposals involving multiple departments are encouraged.
4. Faculty members with prior research publications, patents, or project experience may be given preference.

Areas of Support

Seed funding may be provided for:

- Innovative research projects
- Prototype and model development
- Product design and fabrication
- Software and application development
- Experimental and laboratory research
- Interdisciplinary research activities
- Socially relevant and community-based projects
- Emerging technologies such as AI, IoT, Data Science, Robotics, Renewable Energy, Healthcare Technologies, Smart Systems, etc.

Proposal Submission and Evaluation

1. The R&D Cell shall invite project proposals periodically through official circulars.
2. The proposal shall contain:
    - Title of the project
    - Objectives and significance
    - Literature survey
    - Methodology and implementation plan
    - Expected outcomes
    - Budget requirements
    - Timeline and deliverables

3. The proposals shall be reviewed by the Research Review Committee constituted by the institution.
4. Projects shall be evaluated based on:
    - Novelty and innovation
    - Technical feasibility
    - Societal and industrial relevance
    - Publication and patent potential
    - Possibility of attracting external funding
5. The recommendations of the committee shall be approved by the Principal/Management.

Duration and Monitoring

1. The duration of the in-house project shall normally be one to two years.
2. The Principal Investigator (PI) shall submit periodic progress reports to the R&D Cell.
3. The R&D Cell shall conduct review meetings to monitor the progress of projects.
4. Projects showing unsatisfactory progress may be reviewed for corrective action.

Expected Outcomes

The funded projects are expected to result in one or more of the following:

- Research publications in reputed journals
- Patent filing/publication/grant
- Prototype or product development
- Consultancy opportunities
- Technology transfer
- Sponsored research proposals to external agencies
- Startup and entrepreneurship activities

Financial Support

The institution may provide financial support for:

- Consumables and components
- Software and tools
- Prototype development
- Testing and fabrication
- Data collection and analysis
- Minor equipment and accessories
- Patent filing support

Responsibilities of the Principal Investigator

The Principal Investigator shall:

- Utilize the sanctioned funds responsibly.
- Maintain proper records and bills.
- Submit progress and completion reports on time.
- Publish research outcomes with institutional affiliation.
- Ensure ethical and quality research practices.

9. RESEARCH ETHICS

Santhiram Engineering College is committed to maintaining the highest standards of ethics, integrity, transparency, and professionalism in all research and development activities. The institution believes that ethical research practices are essential for generating reliable knowledge, protecting the rights of individuals, and maintaining public trust in academic and scientific research.

All faculty members, research scholars, students, project staff, and collaborators involved in research activities shall strictly adhere to ethical standards and professional conduct.

Objectives of Research Ethics

1. To promote honesty, integrity, and accountability in research.
2. To ensure originality and authenticity in research work.
3. To prevent plagiarism, fabrication, falsification, and unethical practices.
4. To protect the rights, dignity, privacy, and confidentiality of research participants.
5. To ensure responsible conduct in publication, authorship, and data management.
6. To create awareness regarding ethical standards in research and innovation.

Ethical Principles

- **Integrity and Honesty**

Researchers shall conduct research honestly and accurately without fabrication, falsification, manipulation, or misrepresentation of data and results.

- **Originality and Plagiarism Prevention**
    1. All research work must be original.
    2. Plagiarism in any form is strictly prohibited.
    3. Proper acknowledgment and citation shall be provided for all references and sources.
    4. All theses, dissertations, project reports, and publications shall be checked using plagiarism detection software before submission/publication.
- **Confidentiality and Privacy**

Researchers shall maintain confidentiality of research data and protect the privacy of participants, organizations, and institutions involved in research activities.

- **Non-Discrimination**

Research activities shall not discriminate against any individual or group based on gender, religion, caste, race, disability, language, or social background.

- **Conflict of Interest**

Researchers shall disclose any financial, professional, or personal conflicts of interest that may influence research outcomes.

- **Professional Competence**

Researchers shall undertake only those research activities for which they possess adequate knowledge, skills, and expertise.

- **Responsible Authorship**
    1. Authorship shall be based on significant academic contribution.
    2. All contributors shall receive proper acknowledgment.
    3. Gift authorship and false authorship practices are prohibited.
- **Social Responsibility**

Research activities shall contribute positively to society, environment, and sustainable development.

Research Misconduct

The following shall be treated as research misconduct:

- Plagiarism
- Fabrication of data
- Falsification of results
- Duplicate publication
- Misrepresentation of authorship
- Ethical violations involving participants
- Copyright infringement

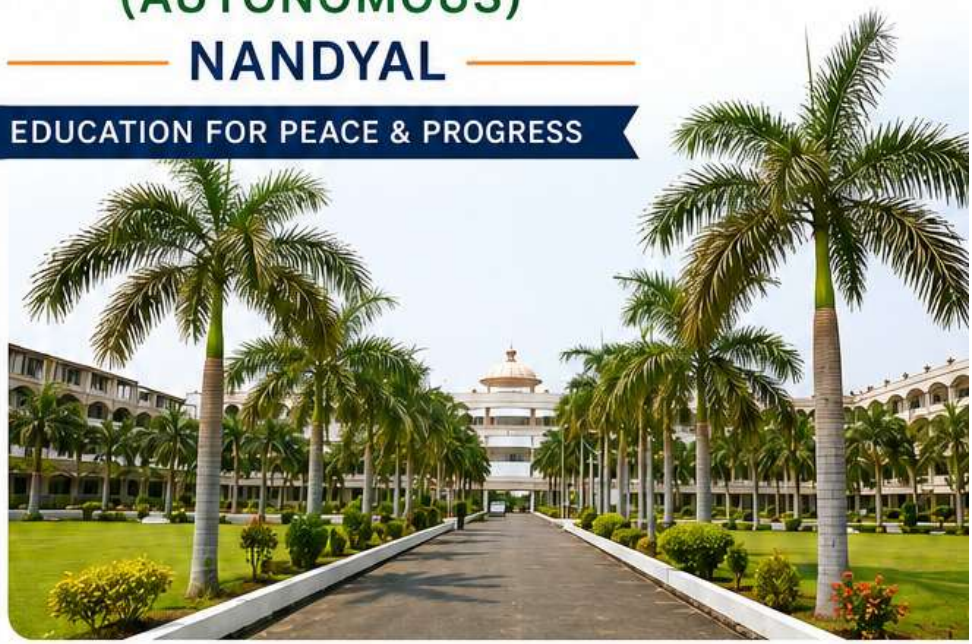
Appropriate disciplinary action shall be taken against individuals involved in research misconduct as per institutional and regulatory guidelines.

SANTHIRAM ENGINEERING COLLEGE

(AUTONOMOUS)

NANDYAL

EDUCATION FOR PEACE & PROGRESS



COLLEGE VISION

To become a nucleus for pursuing technical education and pool industrial research and developmental activities with social-conscious and global standards.

COLLEGE MISSION

- To provide Advanced Educational Prams and prepare students to achieve success and take leading roles in their chosen fields of specialization by arising a self-sustained University
- To establish postgraduate programs in the current and Advanced Technologies.
- To establish an R & D Consultancy through developing Industry Institute Interaction, building up exceptional infrastructure
- To propel every individual, realise and act for the technical development of the society.

OUR DISTINCTIONS

AUTONOMOUS STATUS 2023	NAAC GRADE A (3.2 SCORE)	NBA ACCREDITED (ECE & CSE)
AICTE - CII SURVEY GOLD CATEGORY (2017 & 2018) PLATINUM CATEGORY (2019)	NPTEL NODAL CENTRE & SPOC (From 2017)	ISO 9001:2015 CERTIFIED

Excellence in Education, Commitment to Society, Leadership in Future

COLLEGE CREDENTIALS & RECOGNITIONS

- Received Best Engineering College with AA+ by Career 360 in year 2023, and **AAA** in year 2026.
- Conferred **Autonomous status in the year 2023.**
- Accredited by **NBA** (Dept of ECE & Dept of CSE) and **NAAC** Accreditation with **Grade A (3.2 score)**
- SREC is recognised as Q-Mentor College by APSCHE in 2022.
- Recognised Swachhta Action Plan Institution by MGNCRE in 2021
- SREC received "Certification of Appreciation" from HCL.
- Received "Best Fastest Growing Engineering College in Andhra Pradesh" award from Global Education Excellence Awards, New Delhi.
- SREC is recognized under GOLD CATEGORY by AICTE - CII Survey for the Year's 2017 and 2018, and PLATINUM CATAGORY in the year 2019.
- International Collaborative MOU with LINCOLN University, Malaysia in the year 2018.
- NPTEL Nodal Centre & SPOC from 2017
- 2(f) & 12 (B) of UGC Recognition in the year 2013
- ISO 9001:2015 certification
- Received All India Level ranks in the AICTE-Eduskills internships –
  - 22nd position in the year 2023
  - 6th position in the year 2024
  - 5th position in the year 2025
- Received GRADE-A certificate from NPTEL, and secured All India wide position, for completing
  - 167th position - 960+ MOOCS certifications during July-Oct, 2024.
  - 144th position - 980+ MOOCS certifications during Jan-Apr, 2025.
  - 195th position - 900+ MOOCS certifications during July-Oct, 2025.
  - 167th position - 1260+ MOOCS certifications during Jan-Apr, 2026.
- Received 4* rating from IIC, and became MENTOR INSTITUTE to 44 schools in and around Nandyal district, in the year 2025.

EDUCATION • INNOVATION • RESEARCH • DEVELOPMENT • SOCIETAL IMPACT