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7.2.1 Best practices

Best Practices – I

1. **Title of the Practice**

Industry – oriented Curriculum Design and Teaching – Learning Process

2. **Objectives of the Practice**

The goal is to bridge the gap between academic knowledge and practical application, producing graduates ready for the demands of the professional world.

3. **The Context**

Industry-based curriculum for engineering students is crucial to bridge the gap between academic knowledge and real-world application, ensuring graduates are well-prepared and relevant in the rapidly evolving professional landscape. This prepares students by making the curriculum relevant, fostering collaboration with industry partners, emphasizing project-based learning, encouraging internships, integrating industry tools and technologies, using practical assessments, and staying adaptable based on continuous industry feedback.

4. **The Practice**

The practice behind industry driven approach in teaching-learning can be noted through,

- MoUs
- Industry Experts (BoS)
- Value Added Courses
- Field Visits
- Industrial trainings
- Internships
- Industry-sponsored labs
- Adjunct faculty

5. **Evidence of Success**

The success of the industry driven approach can be evidenced through,

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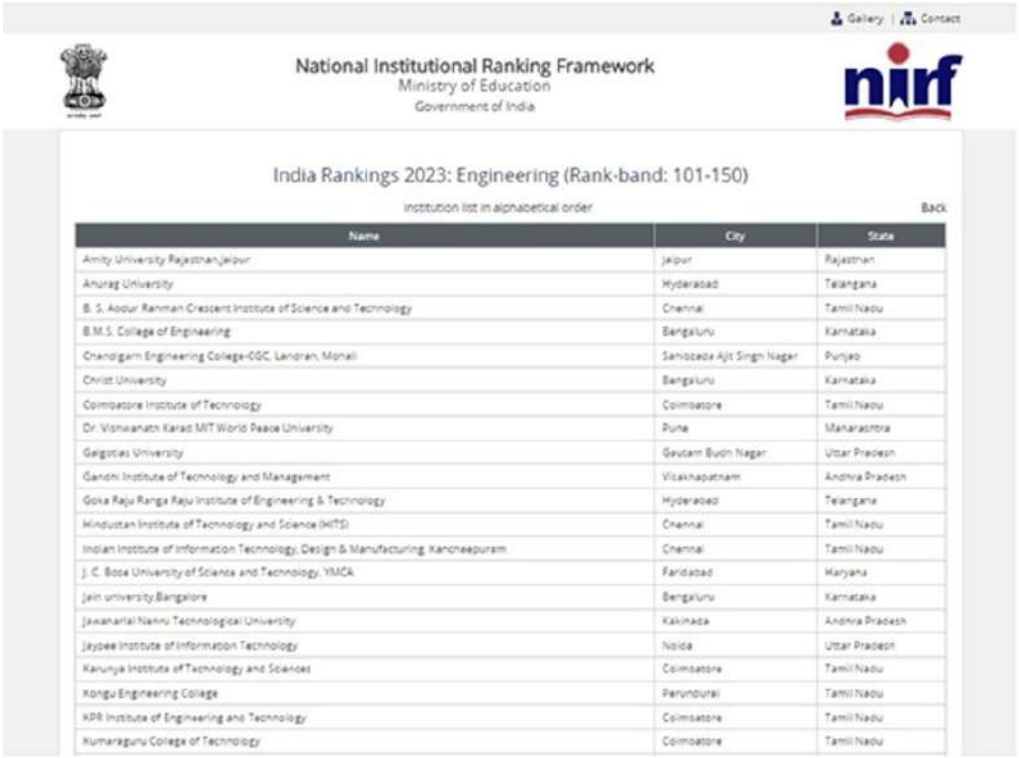
- AICTE CII - Best Industry Linked Institute

- NIRF India Ranking – 100 to 150 band



Gallery | Contact

National Institutional Ranking Framework
Ministry of Education
Government of India

nirf

India Rankings 2023: Engineering (Rank-band: 101-150)

Institution list in alphabetical order — Back

Name	City	State
Amity University Rajasthan,Jaipur	Jaipur	Rajasthan
Anurag University	Hyderabad	Telangana
B. S. Abdur Rahman Crescent Institute of Science and Technology	Chennai	Tamil Nadu
B.M.S. College of Engineering	Bengaluru	Karnataka
Chandigarh Engineering College-CGC, Landran, Mohali	Sahibzada Ajit Singh Nagar	Punjab
Christ University	Bengaluru	Karnataka
Coimbatore Institute of Technology	Coimbatore	Tamil Nadu
Dr. Vishwanath Karad MIT World Peace University	Pune	Maharashtra
Galgotias University	Gautam Budh Nagar	Uttar Pradesh
Gandhi Institute of Technology and Management	Visakhapatnam	Andhra Pradesh
Goka Raju Ranga Raju Institute of Engineering & Technology	Hyderabad	Telangana
Hindustan Institute of Technology and Science (HITS)	Chennai	Tamil Nadu
Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram	Chennai	Tamil Nadu
J. C. Bose University of Science and Technology, YMCA	Faridabad	Haryana
Jain university,Bangalore	Bengaluru	Karnataka
Jawaharlal Nehru Technological University	Kakinada	Andhra Pradesh
Jaypee Institute of Information Technology	Noida	Uttar Pradesh
Karunya Institute of Technology and Sciences	Coimbatore	Tamil Nadu
Kongu Engineering College	Perundurai	Tamil Nadu
KPR Institute of Engineering and Technology	Coimbatore	Tamil Nadu
Kumaraguru College of Technology	Coimbatore	Tamil Nadu

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- NIRF Innovation Ranking – 51 to 100 band

- Best Industry Linked Institute – Awarded by L&T EduTech

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- CII Institute Innovation Ranking – 4 star with Mentor Institute position

- Winner SIH Hardware Edition (2022)

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- Hosted SIH Software Edition Grand Finale (2022)

6. **Problems Encountered and Resources Required**

The following are the encountered problems in the industry-oriented teaching-learning process.

- Industries are dynamic, and their needs change rapidly. The curriculum might become outdated if not regularly updated.
- Different industries have varied needs and practices, making it challenging to create a one-size-fits-all curriculum.
- Traditional assessment methods may not align with industry standards, making it difficult to evaluate practical skills.

Best Practices – II

1. **Title of the Practice**

Sustainable Green Campus

2. **Objectives of the Practice**

Fostering a sustainable green environment within the institution's campus is a commitment to harmonizing education with ecological responsibility.

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3. **The Context**

Our institution recognizes the pivotal role it plays in nurturing environmentally conscious practices and has implemented following initiatives to create a campus that thrives in harmony with nature.

4. **The Practice**

The practice behind sustainable green campus can be verified through the following.

- Installed 16 kW Solar Panels and it consumes 70 to 75 units per day
- The campus is fully facilitated with LED bulbs for energy consumption and creating awareness among students
- To enhance pollution-free environment, students were designed and fabricated 3 Solar Vehicles for in-house shuttling purposes
- 1.25 Lakh capacity of waste water is treated through STP and utilized for gardening purposes
- 13 Rainwater Harvesting systems is located for groundwater recharge
- Implementation of Miyawaki Forests (Trees: 9803, Fauna: 108, Flora: 40+) for planting dozens of native species
- Bio-composting process is made through the organic wastes for the manure preparation
- Natural manure is also encouraged for the plant growth and the soil productiveness
- Utilisation of Biogas (30 kg/day) for Cooking Purposes in Hostels through Biogas Plant
- Arrangement of Birds path is placed to make the campus bio-diversified
- To focus on the water conservation and management, Automation is placed in the campus water management activities

5. **Evidence of Success**

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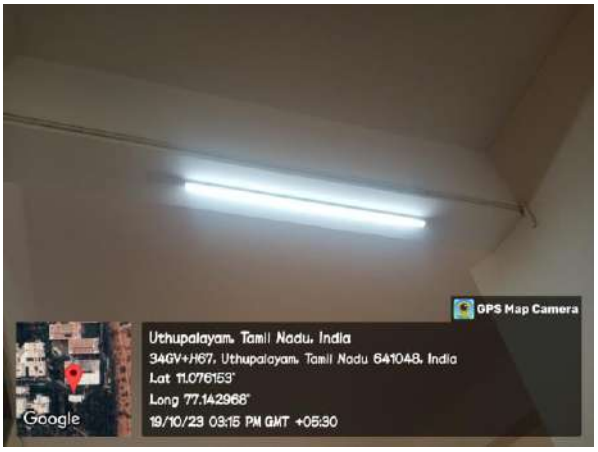
Solar Power System



LED Bulbs usage

Sewage Treatment Plant

Rainwater Harvesting

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Landscaping

Composting unit

Biogas plant

Food waste scrapper machine

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Plastic Free Campus

Solar Water Heater

6. **Problems Encountered and Resources Required**
   - Lack of Awareness: Many people may not fully understand the importance of sustainability or may be unaware of the environmental impact of their actions.