ADITYA COLLEGE OF ENGINEERING
Approved by AICTE, Permanently Affiliated to JNTUK, Accredited by NBA & NAAC
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956
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Best Practices

Practice 1

Title of the practice: Innovative Training Programme

Objectives of the practice:
- To foster the technical skills of students by imparting special training on various technologies.
- To build confidence in the students by developing communication skills.
- To make the students aware of the interview process by conducting mock interviews.
- To aim for the overall development of students with specific focus on academics, research, social service and management.

Context:

Owl coder is an Innovative Training Program of 60 days which enhances trainees on Coding skills like Data Structures and Algorithms, Problem solving skills. Today's global industrial scenario require professionals with a wide range of knowledge and skill sets, including the ability to lead team-centered projects, contextualized problem formulation, proficiency in communicating across disciplines and hands-on experience. As there is growing demand for skilled professionals in various sectors, the institute aims to produce skilled professionals to fill the demand.

The Practice:

The Institute provides training along with certification to students based on industry requirements in different domains from programming to automation like Data science, Software development, Android development, Cyber Security, Robotics, Mechatronics etc., Special focus is also given on communication and soft skills, so that they can be ready for the industry by enhancing their knowledge as well as skills.

Accordingly, the Institute has focused its efforts in educating future professionals in high-demand fields including

Software Certifications/Trainings:
- AWS Certified Cloud Practitioner & Architect Associate
- Microsoft Azure Fundamentals, Administrator & AI Fundamentals Certification
- CISCO Certified Network Associate, Cyber Security Operations Associate
- CompTIA Certified Cyber Security Analyst, Security+
- Google Cloud Certified Associate Cloud Engineer
- Automation Anywhere Certified Essential and Advanced RPA Professional

- Salesforce Certified Administrator
- Red Hat Certified System Administrator & Engineer
- Juniper Networks Certified JUNOS Associate
- Oracle Cloud Infrastructure Certified Foundations Associate
- Google Certified Associate Android Developer,
- Microsoft IT Specialist Python and Java Certification
- VMware Certified VSphere6 Administrator,
- HubSpot Academy Digital Marketing Certification
- Microsoft Technology Associate in Web Design, Software Development, Database Fundamentals,
- Network Fundamentals, Security Fundamentals, and Javascript
- Unity Certified Programmer & Artist
- Arduino Fundamentals Certification
- Autodesk Certified User - AutoCAD, and Revit
- Competitive Coding
- Red Hat- System Administration RH124, RH 134, RH 254
- Oracle Academy SQL and Database
- DevOps Associate
- MEAN and MERN Stack
- Artificial Intelligence & Machine Learning
- Internet of Things
- Automation Testing
- Augmented Reality / Virtual Reality
- DELL EMA Academic Alliance - Cloud Infrastructure & Services (CIS)V2,
- Data Science & Big Data Analytics,
- Information Storage and Management V3 (ISMV3), Data Production & Management (DPM)
- Siemens Solid Edge
- Dassault CATIA, Delmia , Simulia
- Robot Cprog
- Hardware Certifications:
- Applied Robot Control- Robots, Mechatronics & PLC Automation
- Automotive 2 & 4-Wheeler
- Computer Numeric Control (CNC)
- Refrigeration and Air Conditioning
- Industrial Welding
- Electrical Home & Industrial Appliances
- Soft Skills/Life Skills/Career Guidance

Campus offers a platform both virtually and physically for the students to improve their language proficiency in a way that exposes them to global English and help them get rid of mother tongue influence. The learner centric approach provides students a free hand in learning

Evidence of Success:
Separate built-up area of 50,000 sq. feet is dedicated to training and certification along with Incubation centre. A special team of technical trainers are available at Technical-hub to train the students In addition to regular academic requirement, Training centres are established in association with APSSDC. Further, students who participated in various trainings and mock interviews enhanced their technical skills and communication skills.

Practice 2

Title of the Practice: Global Readiness in Ensuring Ecological Neutrality
- To achieve environmental sustainability through energy conservation, reducing carbon footprint and waste management
- To sensitise all students and staff towards environment conservation.

The Context:
The increase in environmental pollution and depletion of natural resources throughout the globe calls for immediate attention towards controlling pollution, conservation of natural resources and protecting the planet for future generations.

The Practice:
ADITYA COLLEGE OF ENGINEERING is an expansive, verdant, and eco-friendly campus. Carbon neutrality, renewable energy production and its utilisation, energy conservation, waste management, and plastic ban are just a few of the ongoing initiatives taken in the campus to protect and preserve our planet. The seriousness of the issue must be emphasised to the students. students are sensitized towards various problems related to environmental pollution, depletion of natural resources and energy conservation. The following measures have been initiated in the institute to donate to the great cause of environmental consciousness and sustainability.

Carbon Balance
ACOE has a 21,054 m^2 open space and garden area. Flowering plants, particularly trees, operate as a sound barrier and heat regulator in the garden based on their therapeutic value and relationship to Vedic philosophy. Horticulturist supervises the gardens. Organic pesticides and fertilisers are used on plants. Efforts are being taken to decrease the carbon footprint by adding plants and trees and minimising the vehicle usage.

Renewable Energy:
In the year 2018, solar power production facility with a capacity of 500 kW was erected to cater the needs of the institute. Solar hot water systems with 12000 LPD capacity were built for the hostel buildings.

Waste Management:
The Institute effectively manages solid waste, liquid waste and e- waste thus contributing to environment protection.

Ban of Plastic:
Efforts are in place to minimize the use of plastic bottles, straws, and food packaging. The college imposed ban on single use plastic-ware.

Evidence of Success:
1) 37% of ACOE is covered with open space and plantation area.
2) 8 tonnes of Vermi-compost and 4000 Litres of Jeevamrutham generated from college biomass in 40 days and used as organic plantation feed.
3) Ponds handle the 95000 KLD campus liquid wastes. Treated water irrigates all campus flora and agricultural land.
4) 11 harvesting pits, were strategically placed on campus.
5) Open ponds with Aerators capture and store rainfall on campus.
6) FRP Digested Food waste operated 4 m^3/day biogas plant was made accessible for biogas generating.
7) The institute is recognized as "Cleanest Higher Educational Institute" in the country by MHRD with 3rd rank under Swachh Campus Rankings 2019.
8) The institute is involved in "One Student One Tree" initiative of ACOE.

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