

Skill Development Training -Program Details

For

A J Institute of Engineering and Technology Kottara Mangaluru



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgavi)



Courses Offered & Eligibility Criteria

1. VLSI Design Engineer

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Eligibility : 3rd year, 4th year Engineering or 3rd year Diploma appeared after 12th.

2. AI – Business Intelligence Analyst

Eligibility : Appearing 3rd year Diploma after 12th or 3rd year, 4th year Engineering.

3. IoT – Software Analyst

Eligibility : Appearing 2nd year Diploma after 12th or 2nd year Engineering.

4. Electric Vehicle Service Technician

Eligibility : Appearing 2nd year Diploma after 12th or 2nd year Engineering.

Note: Students mobile number should be linked with Aadhaar number



1. VLSI Design Engineer

Training Content :

- Interact with the project lead and design lead to understand the project specific design mandate.
- Understand the type of design required such as digital or analogue and their respective design flow.
- Select the design type involved such as application specific integrated circuit (ASIC), field-programmable gate arrays (FPGA) depending: Design cycle time, Expense and Custom design requirement.
 - Follow the complete system architecture including memory, microcontroller, microprocessor, memory blocks, timers and oscillators, interfaces and power management.
 - Segregate the design partitioning in different blocks.
 - Assess the placement of blocks and functions of each block of the SOC.
- Select the languages for designing or hardware design language (HDL), e.g., Verilog, VHDL, high level language such as C.



At the end of the program, the learner should have acquired the listed knowledge and skills:

- Memorize the basic concepts of system designing and computer architecture.
 Perform designing of function of SOC module of IC.
- Achieve productivity and quality standards for the correct specification output.
 Interact and coordinate with the supervisor and colleagues etc.
 - **Follow safe and healthy work practices.**



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2. Al-Business Intelligence Analyst

Training Content :

- Artificial intelligence & big data analytics An introduction.
- Basic statistical concepts.
- Business requirements analysis.
- Importing data.
- Preprocessing data.
- Exploring data.
- Create visualizations.
- Manage and plan work requirements.
- Communication and collaboration with colleagues.
- Workplace data management.
- **Pelationship management at the workplace.**



- Elaborate the various occupations under future skills sub sector and the impact of these on organizations and businesses.
- Discuss the growing importance of AI and Big Data Analytics and its impact on the society.
- Define basic statistical concepts used for analysis such as measures of central tendency like mean, median, or mode, or statistical anomalies like missing values, bias, or outliers.
- Collect different stakeholder requirements and map them to the capabilities of the delivery team.
- Apply different methods to import data such as functions used to import data from various file formats.
 - Apply different methods to preprocess data such as removing missing values or transforming incorrect data types.
 - Apply different methods to explore data such as summarizing data, dimension reduction and defining correlations.
 - Use statistical tools such as statistical integrated development environments (IDEs), or software packages, libraries and frameworks for importing, preprocessing, exploring and visualizing data.





3. IoT-Software Analyst

Training Content :

Detail the nature of work performed across the sub- sectors.
 List organizations in the sector.

Discuss the evolution of the sub sectors and the way forward.
Explain the disruptions.

Discuss the general overview of the future skills sub-sector.

- Describe the profile of the future skills sub-sector.
- Explain the various occupations under this sub- sector.
- List key trends across the occupations in this sub- sector.
- List various roles in the future skills sub-sector.



- Explain the nature of work across the IT-ITeS sector, the various sub sectors and their evolution.
- Elaborate the various occupations under the future skills sub sector and the impact of these on organizations and businesses.
- Discuss the evolution of IoT and evaluate the possible impact of IoT on businesses and society.
 - List common security and privacy risks that affect IoT solutions and methods that mitigate them.
 - Comprehend product engineering concepts such as translating requirements into products and ensuring their timely delivery.
 - Develop and test source code for software applications.
 - Assess the different phases of a continuous integration and deployment (CI/CD) pipeline such as build, unit test, deploy, auto test, deploy to production, etc.
 - Use different tools for build and test automation such as Puppet, Chef, Jenkins, SaltStack, Selenium, etc.
 - Apply the concepts of containerization using tools such as Docker, Kubernetes, Nagios, etc.



4. Electric Vehicle Service Technician

Training Content :

- □ Introduction to the role of an Electric Vehicle Service Technician.
- Work effectively and efficiently.
- **Optimize** resource utilization.
 - Introduction to employability skills.
 - Constitutional values Citizenship.
 - Becoming a professional in the 21st Century.
 - Basic English skills.
 - Career development & goal setting.
 - Communication skills.
 - Diversity & inclusion.
 - Financial and legal literacy.



At the end of the program, the learner should have acquired the listed knowledge and skills:

- Perform preparatory activities related to service and repairing of an EV.
 Assist the lead technician in diagnosing and repairing faults in an electric vehicle.
- Work effectively and efficiently as per schedules and timelines.
- Implement safety practices.
- Optimize the use of resources to ensure less wastage and maximum conservation.
- Perform routine service/maintenance/minor repairs of the four-wheeler / 2-3 wheeler/ truck-bus electric vehicle.



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- Students data should be captured in the prescribed format shared by Aspire.
- Trainer should complete the entire course curriculum in stipulated time period.(As per the batch start date & end date of portal)
- Course content (PPT) will be provided by Aspire.
- Examination will be inclusive of theory (MCQ based) & practical.
- Daily attendance is compulsory. Candidates In/Out timing should be reported through biometric attendance system.
 - 75% Attendance is mandatory to become eligible for examination.
 - Examination will be conducted by third party assessing body representative.
- Upon passing the examination candidate will receive mark sheet & certificate.





Students Benefits

No Fees

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We do not charge any fees from students.

NSDC Certificate

Upon successfully passing the examination, get a NSDC(National Skill Development Corporation)Certificate.

Contract Employability

Receiving NSDC Certificate can contribute to improving an individual's skills and consequently, will enhance their job prospects.

Holding NSDC Certificate can signify to employers that the individual has undergone specific training and has acquired the necessary skills & potential making him/her more competitive in the job market which increases their employability.

- Weekly corporate intervention
- Hyrathon & Aspire will offer an internship in hybrid mode which is accepted by university.



Sample Certificate





Program Uniqueness

- Hyrathon Continuous Practice Platform
- I Lead Talk Every Saturday







peaker





lead talk hyrathon

Hot Technology Stack for high growth career

Rahul Sadafule, Founder & CEO of Appzoy Technologies Pvt Ltd, and Startup Advisor at Zeolyt Ventures, a graduate of COEP Technological University and holds a Master's Degree from the Indian Institute of Science. With over 15 years of experience, he is an expert in the Indian mobile market, organizational topics including innovation and team mentoring, and has worked extensively in India and abroad within international, multi-cultural teams.



BE-COEP Technological University ME- Indian Institue of Science Founder & CEO - Appzoy Technologies Pvt Ltd Startup Advisor at Zeolyt Ventures

















N-S+D-C National Skill Development Corporation



lead talk byrathon

of rewarding Career

 Smitha Sankangoudar is the HR Director at Flipkart, with a background from MBA in HR (Karnataka University).
 Served extensive tenure at Honeywell with significant contribution. She held the position of center head at KPIT - Banglore and Chennai center.

Smitha Sankangoudar

MBA-HR Ex center head -KPIT HR Director - Flipkart



Entry Free | Registration Mandatory







