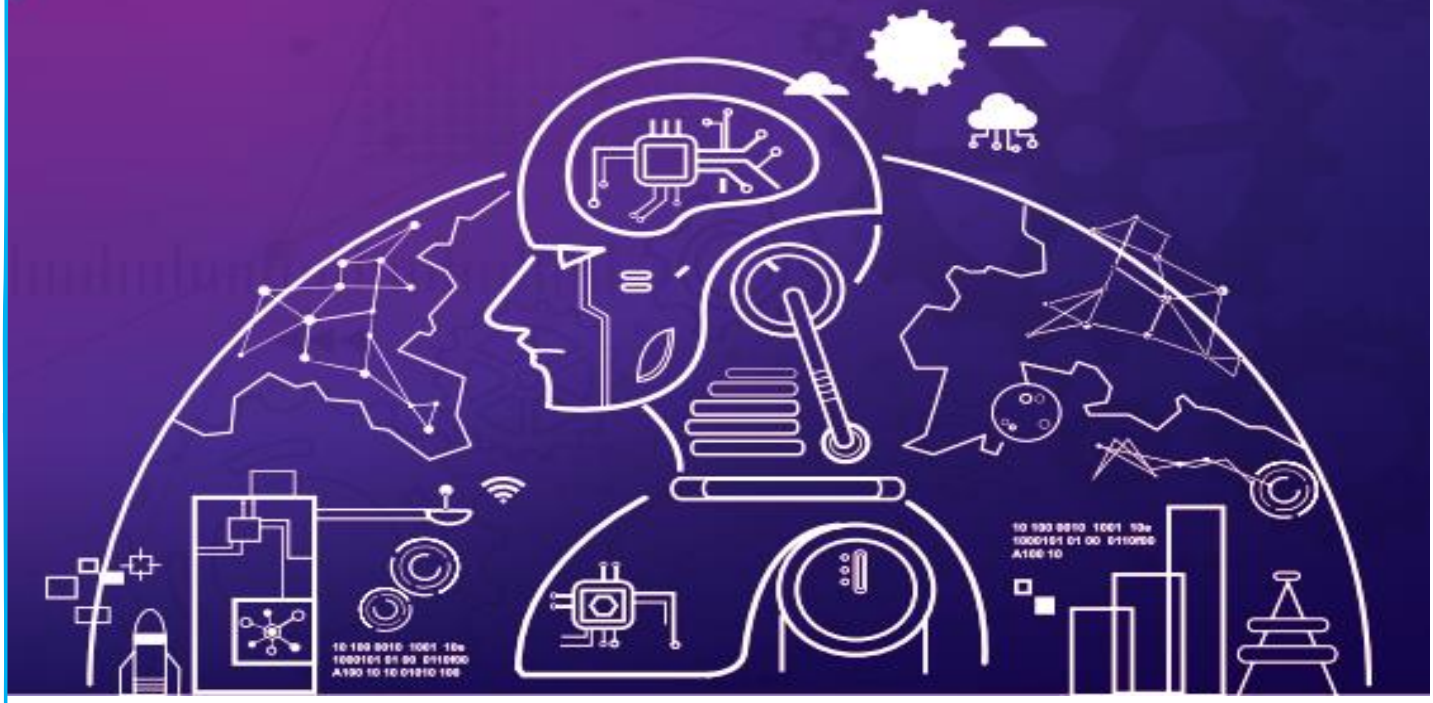
National Institute of Electronics and Information Technology Chandigarh

An Autonomous Scientific Society under the administrative control of
Ministry of Electronics & Information Technology (MeitY), Government of India

Permanent Campus at Birla Farms, Bada Phull, (adj. to IIT Ropar)
Rupnagar (Ropar)- 140001



https://nielit.gov.in/chandigarh/index.php

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Office : 01881-257008, 0172-2650121

NIELIT Headquarter

https://www.nielit.gov.in @NIELITIndia /NIELITIndia @NIELITIndia

/school/NIELITIndia @nielitindia /NIELITIndia

MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY GOVERNMENT OF INDIA

NASSCOM®

रा.इ.सू.प्रौ.सं NIELIT

futureskills prime

A MeitY - NASSCOM Digital Skilling Initiative

FutureSkills Prime, India's Technology Skilling Hub, is a joint initiative by NASSCOM & MeitY, Govt of India to enable digital skilling at scale. It aims to make India the Digital Talent Nation by democratising learning. With NASSCOM Certifications endorsing their technology skills, learners can open doorways to digital career opportunities.

Build the Skills to Rise with the Opportunity

Acquire interdisciplinary skills that combine technical expertise, IT skills and knowledge of digital technologies to pioneer transformation. Develop expertise for in-demand roles like data scientist, business intelligence analyst, full stack developer, information security analyst, machine learning engineer, etc.

FutureSkills PRIME – ten technologies

- Artificial Intelligence
- Virtual Reality
- Big Data Analytics
- Blockchain
- Cloud Computing
- Cybersecurity
- Internet of Things
- Web & Mobile Development
- Robotic Process Automation
- 3D Printing

Different skill categories of courses aid your learning

- Foundation course
- Bridge course
- Deep Skilling course

70+ JOB ROLES FROM THE FUTURE

Robotic Process Automation

Service Engineer | Business Analyst | Robotic Process Automation Developer | Solution Architect | Development Coordinator | Solution Architect | Testing Engineer | Business Analyst

Cyber Security

Security Analyst | Analyst Application Security | Analyst Identity and Access Mgmt | Analyst End Point Security | Analyst Security Operations Centre | Penetration Tester | Consultant Network Security | Forensic Specialist | Security Infrastructure Specialist | Architect Identity and Access Mgmt

Artificial Intelligence

AI Research Scientist | AI Research Scientist Image & Videos | Hardware Integration Engineer | AI Research Scientist, Language-Processing | Data Scientist | Data Architect | Software Engineer, Testing | Software Engineer, Application-Platform, AI

3D Printing

Software Engineer-Slicing | 3D Modelling Engineer/3D Graphic Artist | Solution Architect | System Test Engineer | 3D Printing Technician | Material Analyst Engineer

Internet of Things

Embedded Systems Programmer | Cloud Support Engineer | Information Security Analyst | Solution Architect | Business Analyst | Hardware Design Engineer Designer | Computer Vision Engineer | UI/UX Designer | Network Wireless Specialist | Software Engineer | Data Scientist | Testing Engineer, IOT | App Developer | Data Architect

Blockchain

Developer | Engineer | Testing Engineer | Project Manager | Web Designer

Big Data Analytics

Data Analyst | Data Integrator | Business Analyst | Data Scientist | Solution Architect

Virtual Reality

App Developer | Optical Scientist | Product Hardware Engineer | Service Technologist | VFX Artist | Testing Engineer, Virtual Reality | UI Designer | Computer Vision Engineer | Information Security Analyst | Solution Architect | Sensor Architect | Sound Designer, Virtual Reality | Software Engineer, VR Devices | 3D Modelling Engineer/3D Graphic Artist

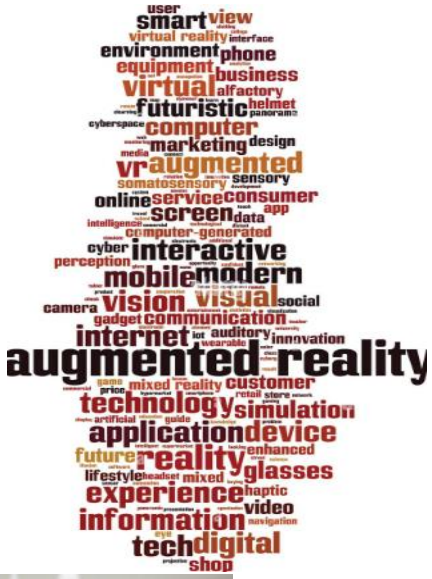
Cloud Computing

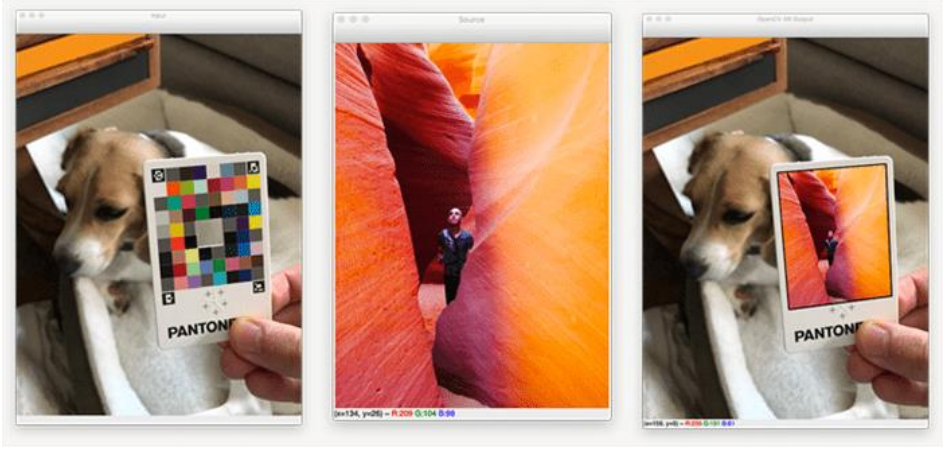
Migration Engineer | Cloud Architect | Cloud Software Engineer

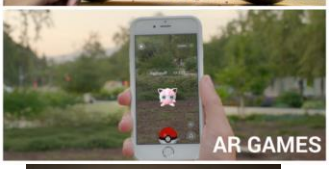
Mobile Tech

Social Engagement Manger | UI Designer | UX Designer | Application Developer | Testing Engineer | Digital Marketing Specialist

Application Areas :







NIELIT Chandigarh

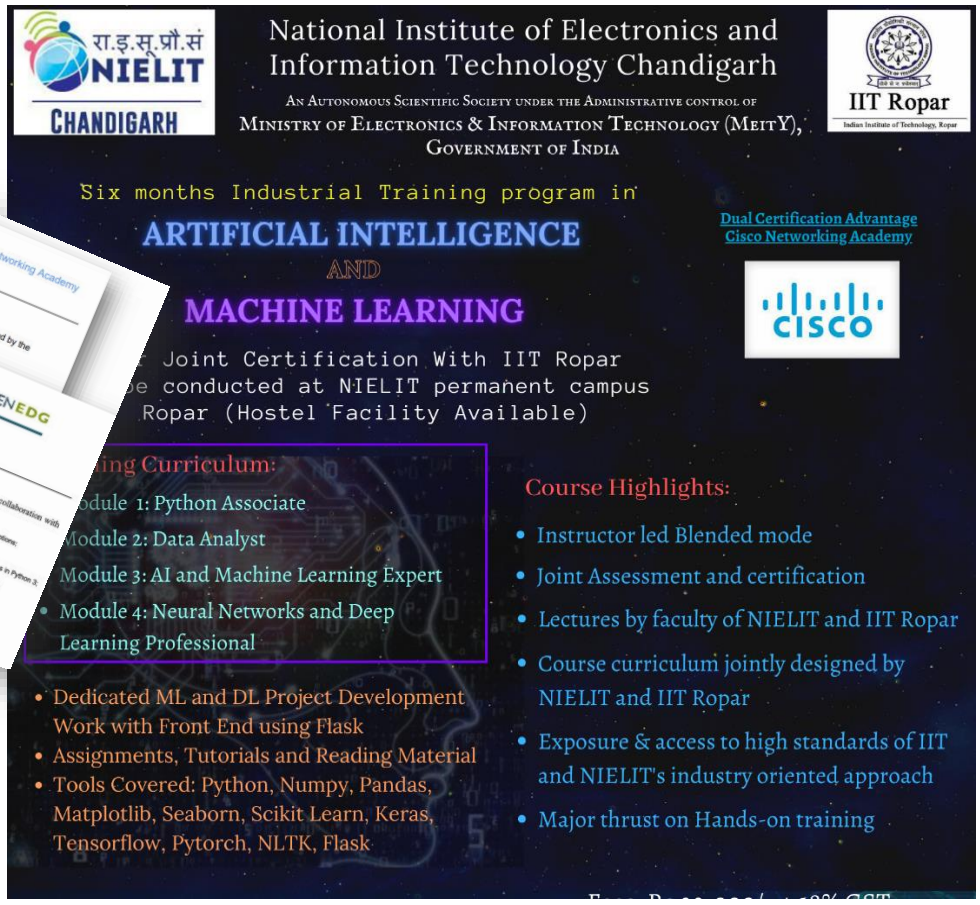
Co-Lead Augmented and Virtual Reality – Technology Domain

Permanent campus : Bada Phull, Birla Farms, near IIT Ropar, Roopnagar, Punjab -140001 Ph: 01881-257008
Chandigarh Ext. Center : IETE Building, Sector 30B, Chandigarh. Ph: 0172-2650121

NIELIT Chandigarh
An Autonomous Scientific Society under the Administrative control of
Ministry of Electronics & Information Technology (MeitY),
Government of India
IIT Ropar
Six month industrial training program in
Internet of Things (IoT)
under joint certification with IIT Ropar
Dual Certification Advantage with Cisco Networking Academy
Training curriculum:
Module 1: Embedded C Programming
Module 2: Interfacing of Sensors and actuators
Module 3: Python Programming
Module 4: Raspberry Pi.
Module 5: Data Science using Python.
Module 6: Artificial Intelligence and Machine Learning.
Course Highlights:
Joint Assessment and certification
Lectures by faculty of NIELIT and IIT
Course curriculum jointly designed by NIELIT and IIT Ropar
Industry oriented approach
Major thrust on Hands-on training
Hostel Facilities available
Internet of things
IOT
LIMITED SEATS AVAILABLE
Register now

PROTEUS VSM
The First Centre of Excellence in India for Embedded Design and Simulation, certified by
Labcenter Electronics Ltd - United Kingdom
NIELIT Chandigarh
Is Equipped for Training and Conducting Courses on Embedded Design and Simulation using Industry Relevant, World Leading, Proteus VSM Embedded Design and Simulation software.
Iain Cliffe - Executive Director
www.labcenter.com
labcenter Electronics

Introduction to IoT
Cisco Networking Academy
PCAP: Programming Essentials in Python
OPENEDG


National Institute of Electronics and Information Technology Chandigarh
An Autonomous Scientific Society under the Administrative control of
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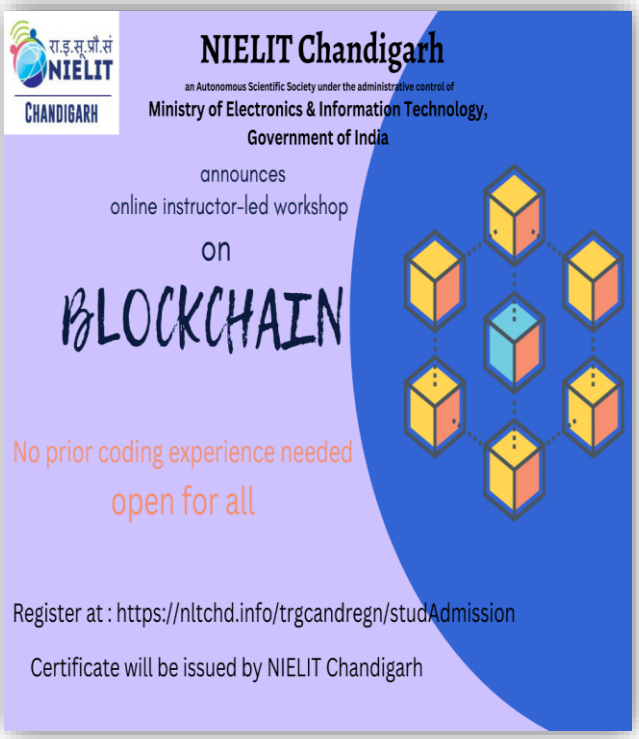
Government of India
IIT Ropar
Six months Industrial Training program in
ARTIFICIAL INTELLIGENCE
AND
MACHINE LEARNING
Dual Certification Advantage
Cisco Networking Academy
Joint Certification With IIT Ropar
conducted at NIELIT permanent campus
Ropar (Hostel Facility Available)
Curriculum:
Module 1: Python Associate
Module 2: Data Analyst
Module 3: AI and Machine Learning Expert
Module 4: Neural Networks and Deep Learning Professional
Course Highlights:
Instructor led Blended mode
Joint Assessment and certification
Lectures by faculty of NIELIT and IIT Ropar
Course curriculum jointly designed by NIELIT and IIT Ropar
Exposure & access to high standards of IIT and NIELIT's industry oriented approach
Major thrust on Hands-on training
Dedicated ML and DL Project Development Work with Front End using Flask
Assignments, Tutorials and Reading Material
Tools Covered: Python, Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn, Keras, Tensorflow, Pytorch, NLTK, Flask

National Institute of Electronics & Information Technology
Ministry of Electronics & Information Technology
Government of India
5G and Beyond
5G
5G
Upcoming Programmes
• 5G Basics: 2G to 5G Evolution, 5G Network Elements
• 5G Standards & Implementation: Key Features, Deployment Models
• 5G Adjacent Technologies: Cloud/Edge Computing, Artificial Intelligence/Machine Learning, Internet of Things (IoT), Augmented and Virtual Reality (AVR)
• 5G Security aspects
• Hands ON Exposure in Lab for Industry Specific Use Cases
• 5G Certifications in collaboration with Industry partners
• Customized 5G technical sessions for Government Officials/Corporates

National Institute of Electronics & Information Technology
Ministry of Electronics & Information Technology
Government of India
Artificial Intelligence of Things (AIoT)
AI powered IoT
5G
Key Projects
• AI Powered Smart Attendance System
• AIoT based Smart Parking system
• Smart Water Metering
• Smart Weighting Scale – an Industrial IoT (IIoT) application
Digital India
Power To Empower
IoT needs AI
AIoT and Smart Cities
IIoT and Transportation

NIELIT Chandigarh
an Autonomous Scientific Society under the administrative control of
Ministry of Electronics & Information Technology,
Government of India
announces
online instructor-led workshop
on
DATA SCIENCE USING PYTHON
This is an action-packed learning Path for data science enthusiasts and aspiring data scientistwho wants to learn data science hands-on with Python
No prior coding experience needed
Open for all
Register at : https://nltchd.info/trgcandregn/studAdmission
Certificate will be issued by NIELIT Chandigarh


NIELIT Chandigarh
an Autonomous Scientific Society under the administrative control of
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Government of India
announces
online instructor-led workshop
on
BLOCKCHAIN
No prior coding experience needed
open for all
Register at : https://nltchd.info/trgcandregn/studAdmission
Certificate will be issued by NIELIT Chandigarh

इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
सत्यमेव जयते
रा.इ.सू.प्रौ.सं NIELIT CHANDIGARH
सी डैक CDAC
CETIFICATE COURSE IN
Augmented and Virtual Reality
futureskills prime
A MeitY - NASSCOM Digital Skilling Initiative
JOIN BRIDGE COURSE
at https://futureskillsprime.in/
• Certification from NASSCOM and a Digital Badge.
• Blended Learning Method of Teaching.
• Hands-on Training on Advanced Topics.
• Project Mentorship by Industry Experts.
• Industry Level Projects
DIGITAL SKILLING GOVT. OF INDIA INCENTIVE

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Government of India
announces
online instructor-led workshop
on
OpenAI
(DALL-E)
DALL.E-2 is a new AI System that can create Images from text and variation of images from a description in natural language
Register at : https://nltchd.info/trgcandregn/studAdmission
Knowledge of Python is required
Certificate will be issued by NIELIT Chandigarh
Rs 118 including GST

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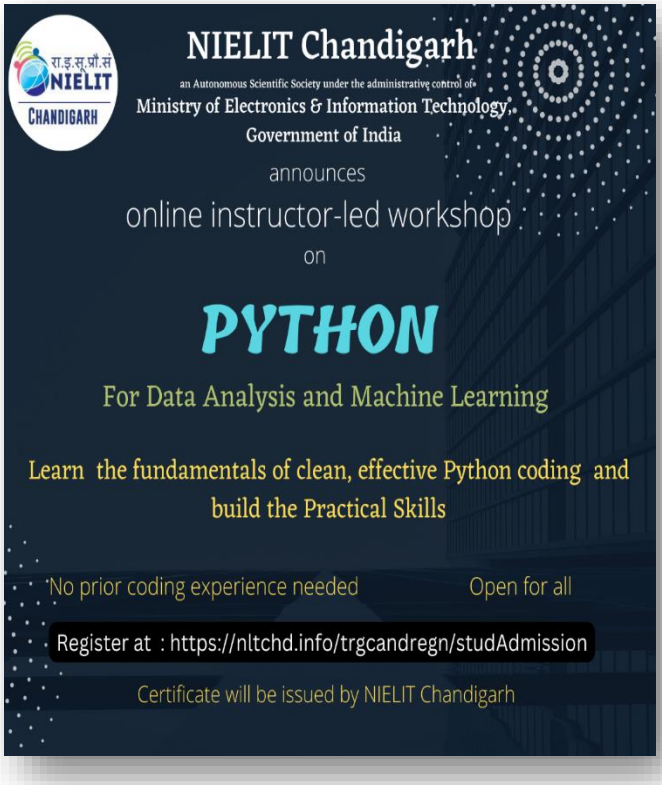
National Institute of Electronics & Information Technology
Ministry of Electronics and Information Technology,
Government of India
NIELIT has endeavored to establish standards to be the country's premier institution for Training and Capacity Building in the field of IECT.
WORKSHOP ON
BIG DATA ANALYTICS and AUGMENTED & VIRTUAL REALITY
Importance
• Faciliate Quick and Accurate decisions.
• Optimum Utilization of Resources.
• Predicting Future Possiblities.
• Improve Educational Value.
• Memorable Immersive Lessons.
• Eliminates cognitive overload
Innovative uses
• Accurate Medical Treatment.
• Reduce Tax Evasion.
• Quality Food Production.
• Create Enjoyable Experience.
• Immense market potential
• Heightens user engagement
Career Paths
• Business Intelligence Analyst.
• Data Engineer
• Design /Graphic Engineer.
• AR/VR Designer
Register at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Government of India
announces
online instructor-led workshop
on
PYTHON
For Data Analysis and Machine Learning
Learn the fundamentals of clean, effective Python coding and build the Practical Skills
No prior coding experience needed
Open for all
Register at : https://nltchd.info/trgcandregn/studAdmission
Certificate will be issued by NIELIT Chandigarh

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Birla Farms, Bada Phull, Ropar. Punjab-140001 01881-257041
nielit.gov.in/chandigarh CHD_NIELIT CHD.NIELIT

Course name	Introduction to Cyber Security
Duration	2 weeks (3 hrs daily)
Fee	Rs. 1500/- + 18% GST
Eligibility	10th
Certification	• NIELIT Certification (classroom theory+practical) • Cisco Certification (online-self paced)

SyHabus

- Cybersecurity – Introduction, need, application areas
- Basics of Networking, connecting devices, media
- Cybersecurity Landscape - Attacks, Concepts and Techniques
- Protecting data and privacy
- Cyberwarfare
- Firewall – types, filters
- Detecting attacks, Malware
- Behaviour based security, Botnet, kill chain
- IPS and IDS
- Operating System Security, system Security
- Web security, Wireless network security
- Cyber laws

Dual Certification Advantage

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Solar Photo Voltaic System Installation & Maintenance	
Level-I	Solar System Installation
Level-II	Solar System Repair & Maintenance
Level-III	Installation and Maintenance of Solar Lightning

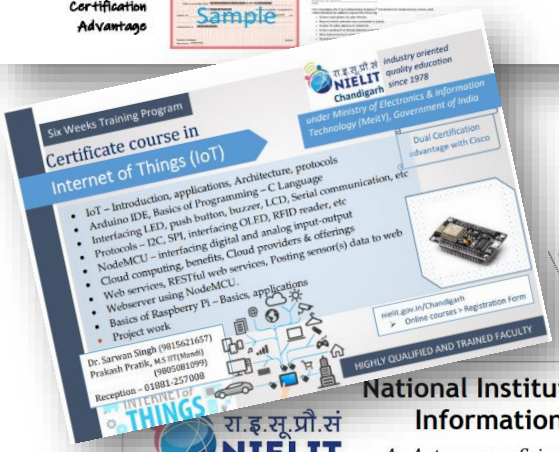
Programming in Arduino & Applications	
Level-I	Basic Arduino Interfacing
Level-II	Arduino Sensor Application
Level-III	Making Line Follower using Arduino
Level-III	Making Automatic Night Lamp using Arduino
Level-III	Making LED based Lightning Products

Basic Science Projects	
Level-I	Basic Science Projects-I for classes VII & below
Level-II	Basic Science Projects-II for classes VIII & above

PC Hardware & Networking	
Level-I	Basics of PC Organization
Level-II	Installations & Troubleshooting in PC
Level-III	Building Networks & Sharing in PCs
Level-III	Installation of Networking Devices

3D Printing & Modelling	
Level-I	Basics of 3D Printing
Level-II	3D Printer Modelling

Paper Circuit Based Systems	
Level-I	Basics of Paper Circuits
Level-II	Making Projects using Paper Circuits



National Institute of Electronics and Information Technology

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Ministry of Communications and Information Technology,
Government of India

Demand of highly skilled, imaginative product design engineers continue to rise & carrier opportunities are varied, challenging & rewarding. Course of Electronic Product Design is beneficial for those candidates who want to focus a carrier in Electronics Design or Manufacturing, or in Engineering Industry & wish to develop knowledge and skills.

Certificate course in Electronic Product Design

- ✓ Fundamentals of design and technology of Electronic Products
- ✓ Embedded C Language using Keil
- ✓ Designing Microcontroller based systems - 8051/ARM7
- ✓ Introduction to PIC, AVR, Arduino, Raspberry pi
- ✓ IoT – Architecture, interfacing sensors, interfacing with web
- ✓ MATLAB
- ✓ VLSI simulation using VHDL/Verilog
- ✓ PCB design and layout

Project work

- ✓ *Well furnished library*
- ✓ *Well equipped laboratory*
- ✓ *Qualified experienced & dedicated instructors*
- ✓ *Online Learning Management System*
- ✓ *Cisco Certified Academy*