

Industry Sponsored Labs & Centers of Excellence



About

The IIIC (Industry-Institute Interaction Cell) at New Horizon College of Engineering shifts students' thought process from job-oriented to career-oriented. Connecting faculty and industries, it helps students identify SMART CAREER GOALS. The IIIC aims to make our college a leading engineering institute promoting innovation, entrepreneurship, and skill up-gradation. We equip students with industry-ready skills to become innovators of the future.

Through the IIIC, we strive to promote a culture of excellence and innovation that not only benefits our students but also enables our faculty members to become sought-after teaching professionals in the academic world.

Industry Sponsored Laboratories & Centers Of Excellence





To become one of the best Centres of Excellence by educating the students in various aspects of Product Life Cycle Management by providing improvised technologies and equip them to work with real time projects.

Mission

Our goal is to prepare students for the industry by teaching them cutting-edge technology and modern learning techniques. We achieve this through the expertise of both industry and academic professionals in PLM (Product Lifecycle Management).

Program Highlights

- DEMS is focused towards IoT and connected product, smart engineering and Digital manufacturing.
- Faculty & Students have great access to Technology, Course content, Software from Dassault systems (France).
- 3D Experience platform provides greater ability of software access in a single user interface.
- Students are trained by experienced faculty and industry expertise from Capgemini.
- Trained students in PLM domain are directly recruited by companies like Capgemini every year.

About the Company & LAB

Capgemini is a global leader in consulting, digital transformation, technology, and engineering services. With over 50 years of industry-specific expertise, the company offers an array of services to help organizations realize their business ambitions. Capgemini's focus is on innovation to address clients' opportunities in the evolving world of cloud, digital, and platforms. The company believes in the business value of technology that comes from and through people. Capgemini is a multicultural company with 270,000 team members in almost 50 countries. The Digital Engineering and Manufacturing Systems (DEMS) lab is an embedded solution across all engineering disciplines that offers students an opportunity to learn and cultivate skills. DEMS leads to the convergence of physical and digital needs through technology, engineering, and manufacturing expertise.





Courses Offered

Product Life Cycle Management is for beginners and includes critical details like bill of materials, parts classification, colour coding, and PLM strategies for batch and mass production systems.

Digital Manufacturing - PLM:

Digital Manufacturing, Benefits of Digital Manufacturing, Manufacturing the First-One, Ramp Up, Virtual Learning Curve, Manufacturing the Rest, Production planning, Product Life Cycle Management for professionals from the First Model till the final development through a ramp-up approach.

PLM concepts, Processes and Workflow:

Characteristics of PLM, Environment Driving PLM, PLM Elements, Drivers of PLM, conceptualization, design, development, validation, production, and support of PLM.

Collaborative Product Development:

Engineering vaulting, product reuse, smart parts, Engineering change management, bill of materials and process consistency, Digital Mock-Up and prototype development and design for environment.

Best Practices

- Encouragement of Massive Open Online Courses (MOOC) on various Product Lifecycle Management (PLM) courses.
- Self-study on the Programmable Logic Controller Module (PLCM) is a part of the curriculum.
- Analysis of real data using TATA Automotive case studies for their self-study project work by the students.
- Conducting all assignments, internal and semester-end examinations as lab experiments
- Certification courses on PLM, including courses on the integration of PLM with Digital Manufacturing, are undergone by faculty members.
- Experts from Capgemini conduct exclusive sessional talks and workshops on PLM and Digital Systems

Hardware setup

- Intel(R) Xeon(R) CPU E5-2630 v3, 32-Core Server Processor.
- 128GB DDR4 RAM. 7.2TB (4 RAID 1 arrays each array has 1.8TB of disk space)
- \cdot 35 High end systems with 7th Generation processors.
- Digital Board.
- Latest version of ENOVIA from Dassault System software is available with CATIA V5 R26.
- $\boldsymbol{\cdot}$ Laboratory is also equipped with latest teaching learning online tools.



Capgemini Engineering Industry 4.0 Centre of Excellence was inaugurated at New Horizon College of Engineering on 28th Feb, 2022 by Mr. Chandra Reddy, Managing Director of Capgemini Engineering and Dr. Mohan Manghnani, Chairman, New Horizon Educational Institution.

Mission

The mission of this lab is to provide training to students in cutting-edge engineering technology streams and platforms of Industry 4.0 and bridging the technological gap between academia and industry.

- Industry 4.0 lab will serve as a platform to create an ecosystem of resources for the digital needs in industrial segment.
- To interact with subject matter experts in the digital solutions from the engineering service industry and enhance their knowledge in the field of Industry 4.0.
- The students will be mentored through online trainings, hackathon and live projects.
- Students are provided with internship and full time offer by Capgemini.
- Live and interactive projects will be provided and mentored by Capgemini experts.
- Visit by the students to Capgemini and freedom to interact with Capgemini experts on technical solutions to projects.
- Visit to IoT related technical expos and conferences.





Capgemini Engineering VLSI Centre of Excellence was inaugurated at New Horizon College of Engineering on 28th Feb, 2022 by Mr. Chandra Reddy, Managing Director of Capgemini Engineering and Dr. Mohan Manghnani, Chairman, New Horizon Educational Institution.

Mission

The mission of this lab is to inculcate VLSI design, implementation and testing skills to meet the current and future needs of the Semiconductor industry.

- Capgemini Engineering accelerates end-to-end design, implementation and testing for ASICs, SoCs and FPGAs: from spec to silicon. RTL to GDSII turn key delivery.
- This Centre of Excellence has greater focus towards Chip Design and Physical Design of VLSI.
- Faculty & Students have access to Technology, Course content, and Software.
- 90 ECE and EEE Students enrolled for this program are trained and hired by Capgemini Engineering along with internship.
- Massive Open Online Courses on Physical Design (VLSI) is encouraged.
- Students perform the synthesis, floor planning, placement and routing as per the industrial standards using state of the art tools.





To foster an industrial learning environment in 5G technology by creating an ecosystem for technical innovation.

Mission

To explore the avenues of Next-Gen communication and to address the promising applications of 5G systems.

- 5G Radio Spectrum, 5G Channel Model, 5G Use Cases And System Concept, Radio Interface Architecture, 5G Physical Layer, 5G Radio-Access Technologies, Introduction to 5G Network Slicing, Vehicular Communications, Mobility and Handoff Management in 5G.
- Upgrading 5G to 6G aspects of Wireless Communication strengthens the scope of CoE in terms of research, consultancy and placements.





About the Company & LAB

5G technology offers new ways to connect people and things, enabling the telecommunications industry to play a stronger role in digital transformation. To optimize investment in 5G, Network Equipment Providers seek new partnerships and talent to identify compelling use cases. Capgemini Engineering helps communication players optimize their investments in 5G by linking Network Equipment Providers, Communication Service Providers, and vertical enterprises through Next Gen Connectivity. We enable Network Equipment Providers to accelerate their 5G strategy through custom-built solutions and accelerators. Our 5G Lab at NHCE provides students with a research-centric learning environment that explores the latest tools and trends in the Communication industry.

Hardware setup

HPE DL360 Gen10 1P 16G 4LFF Svr Xeon 6154 3.0GHz/18C/200W, 1x16GB, Open Bay 4LFF HP drive cage, S100i Controller, 4x1GbE (embedded), Rail kit, 1x500W PS, 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit, Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller, 2TB SAS 7.2K LFF SC DS HDD, 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit, Ethernet 10Gb 2-port 535T Adapter

Courses Offered

5G/6G Mobile Communication

Best Pratices

- ICT Enabled Learning environment
- Research driven global visibility platform
- $\boldsymbol{\cdot}$ NPTEL videos for augmented learning





Robotic Process Automation

The MOU was exchanged between Automation Anywhere and NHCE on 22nd May 2019. Mr. Arvind Thothadri, Global Vice President and Mr. Krishna Raju exchanged the MOU with Dr. Mohan Manghnani, Chairman, New Horizon Educational Institution.

About the Company & LAB

Automation Anywhere's RPA platform is the industry's most advanced, enterprise-grade cognitive RPA solution. Enterprises worldwide use it to create their digital workforces and transform how they operate, enabling them to manage and scale business processes with unprecedented speed.

- Faculty at NHCE have received training at Automation Anywhere premises on IQ BoT on how to use AI techniques and cognitive automation to extract unstructured data from documents (e.g. invoices).
- They also gained BoT insight to gain real-time, actionable insights into BoT activity across the enterprise. The BoT Store taught them to access the world's largest automation marketplace and download ready-to-deploy bots for their digital workforce.
- NHCE will shortly incorporate Robotic Process Automation into its curriculum.





About the Company:

[24]7.ai is a customer experience software and services company headquartered in San Jose, California. Founded in 2000 by P.V. Kannan and Shanmugam Nagarajan, the company leverages artificial intelligence and machine learning to enhance customer service interactions. With a global presence, [24]7.ai operates contact centers in countries including India, the Philippines, Guatemala, Colombia, and the United States. The company offers a range of products and services designed to improve customer engagement, such as predictive analytics, virtual agents, and integrated communication channels encompassing web chat, mobile devices, and interactive voice response systems.

About the lab:

At [24]7.ai, we offer comprehensive soft skill training through our Center of Excellence (CoE). The programs leverage AI-driven solutions to provide immersive training experiences, real-time assistance, and continuous feedback. Designed to improve communication, reduce wait times, and elevate customer satisfaction, our training ensures your team is equipped with the skills needed to excel in today's dynamic customer service landscape.

Objectives:

The primary objectives of the training programs are to enhance communication skills, foster empathy, and improve problem-solving abilities among customer service agents. We aim to create a seamless customer experience by equipping agents with the tools and knowledge they need to address customer needs promptly and professionally. The training also emphasizes the importance of active listening and emotional intelligence, ensuring that every customer interaction is handled with care and precision.

Outcome-Driven Training for Exceptional Customer Service:

The soft skill training programs are designed with clear, outcome-driven objectives to ensure measurable improvements in customer service. By integrating AI technology, we provide agents with real-time feedback and personalized coaching, enabling them to handle customer interactions more effectively. The result is a significant reduction in resolution times, increased customer satisfaction scores, and a more confident, capable team.





To reinvent the thought cycle of students for application based learning.

Mission

Our endeavor through the establishment of COE for AI is to create intelligent humans by enabling the creation of intelligent machines with the help of Artificial Intelligence.

Program Highlights

- · Conducting research on rapidly advancing AI technologies
- Enabling and facilitating industry-academia partnerships in research and development, and fostering relationships through collaborative projects
- Encouraging cross-disciplinary research in applied computing, critical scientific and industrial domains, via research proposal submissions to funding agencies
- Providing a state-of-the-art R&D facility for students, faculty and collaborators
- Offering a comprehensive and meaningful computing environment for education by complementing the theoretical coursework with appropriate laboratory coursework for students, and encouraging team participation and cross-disciplinary problem solving.

About the Company & LAB

AI Lab plays a major role in the research and development, commercial and industrial development of emerging AI technologies. The AI Lab includes IBM and other corporate sponsors, coupled with open source technologies viz., NVIDIA, Ubuntu, Redhat, Power9 and Xilinx to accelerate results. There is a strong need for research and development activity in these domains:

- Encouraging academic-industry partnerships.
- Cross-disciplinary and collaborative research.
- Making AI accessible to non-technical business students.
- Enabling faculty-technologist interaction and learning.
- Enabling startups, ISVs and industries to use the platform to innovate in ways that improve the world condition.



• The IBM OPENpower Lab at NHCE uses IBM POWER9 processor based Server and aims to meet the challenging needs of industry, academia, and society in the world of Artificial Intelligence (AI),Machine Learning (ML),and Deep Learning (DL).

Courses Offered

- E4S Exascale Software training
- Parallelware Analyzer High Performance Computing Training
- Python for Data Science
- $\boldsymbol{\cdot}$ Data Analysis with Python
- Machine Learning with Python
- $\boldsymbol{\cdot}$ Deep Learning with Tensor Flow
- $\boldsymbol{\cdot}$ Hybrid Cloud with Use Cases
- Big Data and Hadoop

Hardware setup

- IBM POWER9 CPU.
- NVIDIA® RTX 2070 GPU
- 1 TB SSD for storage
- 32GB DDR4 ECC registered memory

Best Practices

- Talent and Skills: Remote interns, advanced technology training for students and research scholars
- Publications and Mindshare: Press releases, articles, publications, and conference papers on software-based application research and development
- Intellectual Capital: Patents, open source projects, prototypes, demos, curriculum, student projects, and theses
- Prototype building using a software-centric approach with potential for disclosures
- Opportunities: Seed revenue, leverage funding, build ecosystems, and government/client relationships
- Creating prototypes using the latest technologies to demonstrate to colleges once software-centric solutions are available with comparable performance.

next-gen⊷

Students from CSE, ECE, EEE, ME branches and MBA can opt for SAP related courses.

Vision

To become a centre of excellence by educating students in the various modules of SAP with real-time projects.

Mission

To mould students to become industry ready by empowering them on fundamentals of ERP and machine learning and to advance the knowledge on SAP by providing hands-on sessions for different case studies.

Program Highlights

- SAP Nextgen lab provides learning platform in various technologies like SAP-ERP so that students can build their career as a techno functional consultant.
- SAP also provides learning on most emerging technologies like machine learning and AI so that students can get exposed to trending programming knowledge like Python and R.
- SAP next-gen club associated with this lab regularly conducts hands on sessions in various technologies.

About the Company & LAB

SAP SE is a multinational software corporation based in Walldorf, Baden-Württemberg, Germany. The company specializes in enterprise software that helps businesses manage their operations and customer relations. It is widely recognized for its enterprise resource planning (ERP) software, which is used by companies of all sizes and across various industries.









SAP operates in 180 countries, making it a global market leader in enterprise application software. SAP's technologies, including machine learning, Internet of Things (IoT), and advanced analytics, enable businesses to become more intelligent and adaptive. Its suite of applications and services helps customers operate profitably and make a positive impact. SAP collaborates with a global network of customers, partners, employees, and thought leaders to enhance its offerings and improve people's lives. To further its commitment to education, SAP has established a Center of Excellence at the New Horizon College of Engineering. This center aims to enhance students' knowledge in the field of ERP and its various modules, including MM, S&D, PP, WM, and HRM. Additionally, it empowers students to explore cutting-edge technologies, such as machine learning and artificial intelligence.

Best Pratices

- Regular project-based hands-on sessions
- Industry visits to SAP for real-time experience
- Encouragement for students to enroll in online certification programs
- Expert talks on trending topics twice a semester
- Annual design thinking workshops
- SAP 36-hour overnight Hackathon.

Hardware Setup

- GBI Introduction to SAP using Global Bike
- The S/4HANA version 3.3.
- GBI 3.3 version does not add new functionality, it only has some 'fixes' to the 3.2 version.
- 2.ERPsim Certification
- ERPsim system provisioning subject to certified trainer to operate the games by himself/herself.
- The server is hosted in Victoria University, Australia. NHCE has access to 1000 GBI 3.3 on S/4HANA, 239ERPsim and 200 SAP HANA Licence

Courses Offered

SAP COE offers ERP modules as below:

- Material management
- Sales and distribution
- Warehouse management
- Production planning
- SAP COE also provides access for S/4 Hana cloud platform with ERP sim.
- It also facilitates software learning programs like Python, Jupiter and R.

Networking Academy

Students from ISE, CSE, ECE, EEE, ME, CIVIL, AU branches can opt for Cisco NetAcad related courses.

Vision

To inculcate networking skills to meet the current and future needs of the Information Technology (IT) industry.

Mission

Our goal is to equip the youth with intellectual, technical, and practical skills that will enable them to serve the ever-changing industry.

Program Highlights

- Cisco Networking Academy (NETACAD) provides detailed insight into networking concepts for growing industries.
- Faculty and students have access to course content, software, and Cisco hardware equipment through their Cisco Netacad account.
- Faculty members at Cisco Centre of Excellence are globally certified CCNA instructors.
- Faculty members keep themselves updated with the latest technologies by attending Global Instructor Professional Development Programs (IPDs) and Cisco Annual Conference.
- These development programs and conferences are conducted by the Cisco Academy Support Centre Team.

About the Company & LAB

Cisco Systems, Inc. is an American multinational technology conglomerate heart, quartered in San Jose, California, in the center of Silicon Valley. Cisco develops, manufactures and sells networking hardware, software, Telecommunications equipment and other high-technology services and products. Through its numerous acquired subsidiaries, such as OpenDNS, Webex, Jabber and Jasper, Cisco specializes into specific tech markets, such as Internet of Things (IoT), domain security and energy management.





Cisco has awarded New Horizon College of Engineering the status of Cisco Networking Academy in recognition of all Netacad programs. Mr. George John, Senior Director-IT from Cisco along with Dr. Mohan Manghnani, Chairman-NHCE inaugurated the Cisco Networking Academy at New Horizon College of Engineering on 28th March 2018.

Hardware Setup

- Cisco proprietary switches and routers as connecting devices in the lab.
- Three 2960 series switches and three 1941 series routers.
- For initial configuration three console cables are provided to configure LAN / WAN networks.
- One HWIC2T card for establishing serial interfaces between routers.
- Packet tracers 7.2 and 7.3 versions are loaded on 4GB RAM systems.

Courses Offered

- Routing & Switching-1 as Open Elective: The curriculum of this course is derived from CCNA Module-1, Introduction to Networks and part of CCNA Module-2, Routing & Switching Essentials
- Routing & Switching-2 as Open Elective: It delivers content on few topics of Routing and Switching Essentials along with CCNA Module-3, Scaling Network configurations.
- Routing & Switching-3 as Open Elective: It covers the concepts of CCNA Module-4 Connecting Networks.
- · CCNA and Python certification offered through NetAcad.

Best Practices

Students obtain CCNA Certifications from Cisco for the four modules:

- Introduction to Networks
- Routing & Switching Essentials
- Scaling Networks
- Connecting Networks
- Participation in events organised by Cisco such as Women Rock IT and Hackathons.
- Participation in Cisco Ideathon, an Internship cum Placement Program for Cisco NetAcad Students.

• Students can earn other Cisco certificates by enrolling for online self learning courses available in NetAcad.



Provide competent and industry-ready engineers to the industries in the field of Industrial and Building Automation.

Mission

- Framing Curriculum according to industry standards and using state-of-the-art industry device software.
- Giving industrial exposure in the field of Industrial & Building Automation and bringing opportunities for mutual growth.
- Providing a platform for experimental learning through projects, training, hands on workshops and internships.
- Opening a two way communication between institution and industry with various opportunities.

Program Highlights

- Provides training to students on industrial automation basics such as equipment, architecture, design, input/output connection, programming language, and software programming.
- Offers a Student Exchange Program for interested students.
- Offers a Study Abroad Program for interested students.
- Offers training to various industry partners of Schneider Electric India.
- Conducts Industry Institute Interaction programs in the form of Faculty Development Programs (FDPs), Workshops, and Industrial Visits.

About the Company & LAB

New Horizon College of Engineering has partnered with Schneider Electric & French Ministry of National Education to establish a Centre of Excellence with a high-tech lab for training teachers, engineering graduates, technicians, and customers of Schneider Electric. The content development and delivery will be collaborative between all three parties.





The Indo-French Centre of Excellence in Electricity, Automation and Energy was inaugurated on March 12, 2018, by Ms. Frédérique Vidal, Minister of Higher Education, Research and Innovation, Government of France. The French Ministry of Education has deputed a specialized Professor at NHCE for three years to serve as the Director of the Centre of Excellence.

Courses Offered

- Schneider-Industrial Automation course is offered as open elective for all the engineering branches in 5th, 6th and 7th semesters in IFCEEAE.
- Industrial Automation is offered as professional elective for Electrical & Electronics Engineering students.
- The Electrical & Electronics Engineering stream students can enroll in the Advanced Industrial Automation and Building Automation course, which is offered as a core subject. The course includes real-time experiments in the IFCEEAE, providing students with hands-on experience in advanced automation.

Best Practices

- Curriculum development and revision conducted by industry experts and the Director of the Indo French Schneider Lab.
- Allocation of marks and credits based on task completion and creativity in generating new real-time applications.
- Greater emphasis on practical learning.
- Student Exchange Program: NHCE offers students from various universities in France the opportunity to undergo a one-month internship.
- Study Abroad Program: Selected NHCE students from across all branches will have the opportunity to participate in a 3-month internship at various universities in France.

Hardware setup

- The lab is equipped with Schneider Electric equipment.
- 10 PLC-HMI benches are available for PLC and HMI training.
- A pedagogical bench is used for replicating industrial systems.
- 2 SCADA pedagogical benches are available for studying supervision systems.
- Benches are also available for fire alarm, CCTV, and access control.
- Energy management and home automation using Cbus are also taught in the lab.

FANUC

Students from CSE, ECE, EEE, ME branches can opt for MODROB-Embedded Based Internet Of Robotic Things (IORT) related courses.

To inculcate problem-solving skills to design and automate several tasks to meet the requirements of Industrial Robotics and Automation Industry.

Mission

To make the students industry-ready by enriching them with intellectual, technical and practical skills in the field of Industrial Robotics and Automation.

- Fanuc India Lab aims at providing skills, capabilities, knowledge, safety (self & machineries), confidence & responsibilities needed to design, develop, implement, maintain, support or operate any technology-oriented application, product or services.
- Faculty & Students have access to Robo-guide software, lab manual and Robot specifications for automation programming.
- The teaching staff at Fanuc India Lab have received comprehensive training to effectively deliver this course.



ANUC Education cell with FANUC Robot ER4iA



COLLEGE OF ENGINEERING RTMENT OF ECE E OF EXCELLENCE S AND AUTOMATION



About the Company & Lab

FANUC India, a subsidiary of FANUC Corporation, was established in Bangalore in 1992 to provide the Indian market with FANUC products and value-added services for lower cost of ownership. FANUC Series 0i CNCs offer standard maintenance functions, while FANUC Robots are known for high reliability and performance. FANUC manufactures many robot components in-house. The FANUC India Lab at New Horizon College of Engineering was inaugurated on October 14, 2022, as part of the AICTE MODROB grant for the embedded-based Internet of Robotic Things (IORT) Lab.

Courses Offered

- Programming of Industrial Robot as Open Elective: The curriculum of this course has been designed in consultation with experts from Fanuc India to fulfil the industrial automation requirements.
- This course delivers content on robot programming for various applications using Robo-guide software and Fanuc Robot ER-4iA.
- It covers the concepts of setting up of frames, usage of various program instructions Robot interface with peripheral devices, palletization, pick and place applications.

Hardware setup

- Fanuc Education Cell with Fanuc Robot ER4iA
- Robo-Guide 3D Simulation Core system-Version 8
- End Of Arm Tooling(EOAT)-Gripper

Best Practices

- Students are provided with internship certification programs by Fanuc India Ltd.
- Visit by the students to Fanuc India and freedom to interact with Fanuc India Experts on technical solutions to industrial automation projects
- Exclusive sessional talks and workshops are conducted on Industrial Automation by experts from Industrial Robots and Automation Industry.
- More emphasis on Practical learning





To inculcate problem-solving skills to design and automate several tasks to meet the requirements of semiconductor and chip manufacturing industry.

Mission

To make students acquire and contribute to front end VLSI Design and make a difference in the society by innovating novel ways of modelling digital system.

Program Highlights

- Intel lab aims at producing the next generation of FPGA designers.
- Faculty members have undergone rigorous training program by experts from Intel Corporation.
- Faculty members & Students have academic access to the latest generation of Intel FPGAs and can engage in research on Intel FPGAs

About the Company & LAB

Intel Corporation is an American multinational corporation and technology company headquartered in Santa Clara, California. It is one of the world's largest semiconductor chip manufacturer by revenue, and is one of the developers of the x86 series of instruction sets found in most personal computers. Intel supplies microprocessors for computer system manufacturers such as Acer, Lenovo, HP and Dell. Intel also manufactures motherboard chipsets, network interface controllers and integrated circuits, flash memory, graphics chips, embedded processors and other devices related to communications and computing.





Courses Offered

System Design using HDL Lab

Hardware setup

- DE10-Lite boards: The board utilizes the maximum capacity MAX 10 FPGA, which has around 50K logic elements (LEs) and on-die analog-to-digital converter (ADC). It features on-board USB-Blaster, SDRAM, accelerometer, VGA output, 2x20 GPIO expansion connector, and an Arduino UNO R3 expansion connector in a compact size.
- DE1-SoC boards: The DE1-SoC Development Kit presents a robust hardware design platform built around the Altera System-on-Chip (SoC) FPGA, which combines the latest dual-core Cortex-A9 embedded cores with industry-leading programmable logic for ultimate design flexibility. The DE1-SoC development board includes hardware such as high-speed DDR3 memory, video and audio capabilities, Ethernet networking, and much more.
- The Intel® Quartus® Prime software
- Laboratory is equipped with latest ICT enabled infrastructure.

Best Practices

- Massive Open Online Courses (MOOCs) on Hardware Description Language and on VLSI Design are recommended for enhanced learning.
- Student involvement will be as follows: create design, constrain design, compile design, close timing and configure Design on FPGA board.
- Faculty members also undergo various certification courses on Digital System Design.
- Exclusive sessional talks and workshops are conducted on Digital system design by experts from Intel Corporation.



pullio

To shape the next generation of technocrats with industry relevant skills through industry academia collaborations.

Mission

To partner with academia and shape industry relevant curriculum that includes contextual digital strategy, technology big bels with hands on immersive program enabling engineers to be industry ready.

Program Highlights

- Training the students and enabling them to work in modern industries.
- Developing industry ready technology talents.
- Transferring technology and promoting knowledge spill-overs from the laboratories to the industry.
- Designing special industry focused curriculum for students.
- Faculty development programs and workshops for faculty by the core Brillio team.
- Building core engineering skills through hands on training in new age technologies.
- · Build modern data architectures to accelerate decision making.

About the Company & LAB

Brillio was born digital as an end-to-end engineering and advisory firm with an inherent ability to blend latest technology with design thinking. Founded in 2014 as a digitally native end-to-end engineering and advisory firm, Brillio empowers clients to utilize the four superpowers of technology

- Cloud
- Internet of Things (IoT)
- Artificial Intelligence (AI) and
- Mobility

to turn business and technology disruption into a competitive advantage.





Courses Offered

This is accomplished by delivering high quality customer experiences and accelerated outcomes with the clients. The Brillio culture is driven by Brillio's Core Values and it is the foundation of who they are as an organization. The employees are equipped and empowered to push boundaries with an 'Entrepreneurial' spirit as they craft 'Customer Success' stories. With the customer-centric approach, the company delivers 'Excellence' at every level of collaboration and this is what fuels Brillio's growth story. While being proud of the journey the company "Cares" about customers, employees and the community where they thrive in. The company stays committed to lighting up 100,000 young minds through its CSR efforts.

At the core of their delivery model sits Brillio DNA, which is the main recipe for scaling world-class digital talent with consistency.

The distributed, agile, and global delivery model allows to complement, augment, or redeploy teams across the globe to manage any depth or scale of project.

With over 14 locations spanning 5 countries, Brillio has a significant footprint around the world in every major time zone. The onshore team allows for seamless collaboration with clients, and allows for better quality control and responsiveness to the dynamic digital ambitions and priorities of the customers.

Best Practices

- For selected students, internships and job placements are provided.
- Industry visits to Brillio.
- Annual project competitions among the students.
- Exclusive sessional talks are conducted on data analytics engineering by Brillio experts.
- ICT enabled learning environment.
- \cdot Global exposure platform with a research focus.





To inculcate networking skills by educating students to work with Junos operating system and Juniper devices efficiently.

Mission

To make the students industry ready by enabling them to be responsible for configuring and monitoring devices running the Junos OS.

Program Highlights

- Faculty at NHCE received training on Junos operating system & Junos Associate (JNCIA) at Juniper company LMS.
- The course provides a brief overview of the Junos device families and discusses the key architectural components of the software.
- The course then delves into foundational routing knowledge and configuration examples including general routing concepts, routing policy, and firewall filters.
- The networking concepts and modeling with respect to juniper devices are practiced at JNCAA JNCIA Junos IJOS On-Demand lab environment.
- Students are trained by experienced faculty.
- · Juniper officials conduct regular FDPs and workshops.
- Global certification on JNCIA-JONOS is offered through the Juniper CoE

About the Company & LAB

Juniper Networks is a global leader in AI Networking, Cloud, and Connected Security Solutions. At Juniper, they strive to deliver network experiences that transform how people connect, work and live. By challenging the inherent complexity in the 5G and cloud era, our solutions power the connections that matter most - from education to healthcare to secure banking. Their commitment is to advance real outcomes for network teams and every individual they serve.





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