

The
Coders
Nation

in association with



ALLIANCE
UNIVERSITY
Private University established in Karnataka State by Act No.34 of year 2010
Recognized by the University Grants Commission (UGC), New Delhi
BENGALURU



Work Integrated MTech Program

Program Brochure

The demand for skilled graduates is growing at a CAGR of 35% and the requirement of digitally skilled people is expected to be 2.7 million by 2023. In order to fulfil this requirement with able professionals, IT companies are resorting to cutting edge assessments modes like coding simulations thereby attributing a greater focus on the practical coding skills of aspirants over their theoretical knowledge. The industry's expectation of modern digital education is the inclusion of a higher degree of experiential learning through internships, live projects, certifications, labs and hackathons to build extensive practical knowledge amongst its STEM graduates.

Keeping in mind the industry's needs and the fact that a large number of engineering graduates aren't securing the jobs they aspire for, The Coders Nation in association with its academic partner, Alliance University, has launched a specifically curated "Work Integrated MTech Program". The prime objective of this program (offered in 4 specialized areas) is to provide innovative curriculum through an experiential learning mode.

The Coders Nation

The Coders Nation (TCN) is an outcome-based learning organization that provides opportunities to students and professionals to upskill themselves through courses to be job ready. These courses and learning programs are curated in partnership with industry and academia.

TCN has been founded by 'Human Resources and Technology Leaders' of the industry and the advisory board has a rich representation of eminent leaders across industry sectors.

Our Offerings

- Work Integrated Programs – In collaboration with Leading Universities & Corporates
- EdTech Platform -www.learnjobs.org - Over 85 self-paced online programs to upgrade skills
- Instructor Led Classrooms & "CareerAssist" in partnership with the National Human Resources Development Organization (NHRD) that assists, mentors & co-creates specialized content for students.

TCN's first flagship Work Integrated MTech Program is in collaboration with Alliance University, Bengaluru.

In this skill-based learning curriculum, learners are equipped with industry-based knowledge which enables them to get deployed at work through real-time projects. On completion of these courses, learners are ready to be absorbed into varied capacities across sectors.

TCN Mentors



Amitabh Das
Founder & CEO, The Coders Nation

Amitabh Das, an alumnus of Xavier Institute of Social Service, Ranchi, has over 25 years of experience in Human Resources & Talent Acquisition. He has worked with Aditya Birla Group, HCL & Wipro at leadership positions. He founded Vati in 2003 which was India's first ISO certified Recruitment Process Outsourcing organization. Vati worked with 100+ reputed organizations helping them recruit thousands of professionals over a decade.



Ram Dayal Goyal
Chief Mentor, The Coders Nation

Ram Dayal Goyal, is an MTech in Computer Sciences from IIT Mumbai. He has over 22 years of experience in Niche technology areas like Data Sciences, AI & ML. He has 6 International Patents & 3 IEEE publications to his credit. Ram started his career with IBM and worked with organizations like Ketera, Deem Inc. & others. He is the brain behind the design of TCN's outcome-based learning initiatives. He is also the career architect for students enrolled in TCN's programs. He will be guiding all the experienced IT Managers responsible for training our students of the Work Integrated MTech Program. Ram is also the Founder and CEO of RNS Labs Pvt Ltd (www.RNSLabs.com) an Artificial Intelligence Research and Development company in Bengaluru.

Alliance University

Alliance University is a Private University established in Karnataka State by Act No.34 of year 2010. The University is jointly recognized by the University Grants Commission (UGC) and the All India Council for Technical Education (AICTE), New Delhi.

Alliance University is a renowned university of higher learning located on an extensive state-of-the-art campus in Bengaluru offering a variety of degree courses. The University has baccalaureate concentrations, postgraduate offerings, doctoral degree programs and several professional certificate programs.

Alliance University aspires to be among the best universities in the world by the year 2025 through a series of strategically crafted moves, precisely calibrated action plans and an unwavering commitment to the pursuit of excellence.

- First Private University in South India
- 200+ highly accomplished, competent, research-oriented faculty members
- 50+ International University Partners across North America | Europe | Asia
- 50+ Companies on board for placements | Internships | Industry Interface
- Residential Facilities available on campus

Alliance University Mentors



Dr. Anubha Singh
Acting Vice-Chancellor & Pro Vice-Chancellor

Dr. Anubha Singh holds a Ph.D. from Banaras Hindu University and held a fellowship during her research. She earned the prestigious Jawaharlal Nehru Memorial award for academic excellence during her post graduation in Linguistics. She also has certification in Computational Linguistics from the, Indian Institute of Technology, Delhi, and certification in Natural Language Processing from the

University of Hyderabad. She has established 47 partnerships with reputed universities in 15 different countries. Dr. Singh strongly believes in education's key mission being the creation of job-ready youth. She was quick to adopt digital learning during the onset of COVID-19 to ensure that, for her students at Alliance University, learning never stops. Under her leadership, Alliance University was recently recognized as a pioneer in academic digitization and received the E-LEAD certification by QS.



Dr. Reeba Korah, Professor and Interim Dean
Alliance College of Engineering and Design

Dr. Reeba Korah holds a Ph.D from Anna University, Chennai and is specialized in Signal Processing and VLSI Design. She has a vast experience of over 28 years in the field of engineering academics, administration and active research. Prof. Korah is also an alumnus of Marathwada University, Maharashtra. Her technical expertise spans across VLSI design, image and video processing and wireless sensor

networks. She has about 70 research publications to her credit in reputed international journals and conference proceedings. She has authored five books pertaining to electronics engineering. Dr. Korah serves as a doctoral level research supervisor in Anna University and Sathyabama University, Chennai. She has produced ten Ph.D. holders so far. She is a Reviewer for the reputed Elsevier International Journal of Micro Electronics and Emerald Compel International Journal for Computation and Mathematics in Electrical and Electronic Engineering. Dr. Korah is the recipient of the Karnataka Government's research funding to establish a Centre of Excellence in Electronic device modelling and VLSI Chip design.

Program Overview

Key Highlights

- Program Duration: 24 Months
- TCN Appointment letter right at the onset of the program
- Earn Minimum Rs. 2.7 Lacs as Stipend during the program (24 months)
- Come out with 2 Years of Work Experience & an MTech Degree
- Hands-on experience: 24 months in any of the following specialised areas such as Data Sciences, Dev-Ops, Full Stack Development, Cloud Computing, Robotics & IoT
- Mode of Learning: Hybrid and Learning outcome based
- Academic Delivery: Inputs from Industry experts & Top-notch faculties of Alliance University
- Experienced technical professionals as Project Managers
- Independant allocation of Industry Mentors
- Career Building Workshops with Industry Peers
- Placement Assistance: 100% assistance to all eligible students



An industry curated Program that grooms you as an IT professional with 24 months of Work Experience in Futureskills*like Data Sciences, Data Analytics, Dev Ops, Full Stack Development, Cloud Computing, Robotics & IoT while pursuing MTech Degree

*over 200,000 Jobs in FutureSkills go unfulfilled every year

Who should apply?

- Fresh, Entry Level and Mid-Level BE/ BTech Engineers
- MCA, MSc IT & CS*
- IT Professionals with a desire to get into specialised jobs with niche skills

*Check detailed eligibility guidelines for specific Stream level eligibility criteria. GATE Qualifying scores in specific subjects mandatory for MSc (IT and CS) students.

Eligibility

Program	Minimum Qualification	Prerequisite	Marks Eligibility
Data Science	BE/ BTech (CSE/ IT) MCA/ MSc (CS)/ MSc (IT)	Nil	Minimum 55% in qualifying degree (50% for SC/ST candidates)
	BE/ BTech (all other branches) MSc (Physics, Chemistry, Maths)	<ul style="list-style-type: none"> • Data Structures & algorithms • Database management system 	
Computer Science & Engineering	BE/ BTech (CSE/ IT) MCA/ MSc (CS)/ MSc (IT)	Nil	Minimum 55% in qualifying degree (50% for SC/ST candidates)
	BE/ BTech (ECE/ EEE/ EI)	<ul style="list-style-type: none"> • Data Structures & algorithms • Database management system • Software Engineering 	
Networking & Cloud Computing	BE/ BTech (CSE/ IT) MCA/ MSc (CS)/ MSc (IT)	Nil	Minimum 55% in qualifying degree (50% for SC/ST candidates)
	BE/ BTech (ECE/ EEE/ EI)	<ul style="list-style-type: none"> • Data Structures & algorithms • Java Programming 	
Robotics & IoT Solutions	BE/ BTech (ME/ Industrial Engg/ Production Engg/ Mechatronics/ ECE/ EEE/ EI/ ICE/ CSE/ IT)	Nil	Minimum 55% in qualifying degree (50% for SC/ST candidates)

Curriculum Details

Program	Semester 1	Semester 2	Semester 3	Semester 4
Data Sciences	Theory of programming language semantics Big Data Storage and Analysis Business Intelligence Machine Learning with Python Overview of cloud & Dev-ops architect Data Modelling & optimization Big Data Analytics Lab	Advanced Machine Learning Data Visualization techniques Industry Internship/ Project	Decision making & Predictive analysis Deep Learning Industry Internship/ Project	Financial Analysis Web and Social Media Analysis Industry Internship/ Project
Computer Science and Engineering	Theory of programming language semantics Algorithm and Complexity Cloud Computing Software Testing Software Integration, containerization & deployment Configuration Management with Ansible Software Engineering Lab	Advanced Machine Learning Internals of Operating system Industry Internship/ Project	Web Development (Full Stack) Information Security Industry Internship/ Project	Foundation of Parallel computation Software Design & Architecture Industry Internship/ Project
Networking and Cloud Computing	Advanced Data Communication Advanced Computer Network Network Programming Network Security & Management Cloud Storage Infrastructure Data Centre Networking Network Programming Lab	Topics on SDN & NFV Managing Virtual Environment (PIP) Industry Internship/ Project	Cloud Storage Security Enterprise Cloud Computing Industry Internship/ Project	Wireless Mobile Networks Computer System performance Analysis Industry Internship/ Project
Robotics and IoT Solutions	Numerical Methods & Computer Programming Robotics IoT Architecture & Protocols Industrial Automation Cloud Architecture & Computing Mechatronics Lab IoT Lab	Embedded Systems Pneumatics & Hydraulic controls Industry Internship/ Project	Design of Mechanisms & Manipulators Sensors in Manufacturing Industry Internship/ Project	AI and Expert Systems in Automation Additive Manufacturing Industry Internship/ Project

Admission Process

- 1 Apply at <https://learnjobs.org/work-integrated-mtech-au/> Or <https://www.alliance.edu.in/programme/work-integrated-m-tech-program>
(Fee: Rs. 1000/-)
- 2 Selection Test- Online MCQ based assessment | Online Interview Process
(Test Not mandatory for GATE Qualified Candidates. Scores to be mentioned in the Application Form)
- 3 Provisional Selection Letter of Admission from the University for Shortlisted Candidates. Subject to verification of documents like Mark sheets, ID proof and others.
- 4 Seat Blocking*- Rs 50,000 (Rupees Fifty Thousand only) within 7 days of receiving the Provisional Selection Letter of Admission.
- 5 First Installment: Rs. 1,00,000/- (Rupees One Lac only) within 30 days of seat blocking.
- 6 Second and Final Installment: Rs. 1,50,000/- (Rupees One Lac Fifty Thousand only) by 18th December 2020.

*Seat Blocking and Total Educational Fees assistance provided by Financial Institutions, Banks and NBFCs at their discretion.

*Details of loan assistance will be shared along with the Provisional Admission Letter.

**Hostel Facility is available on the University Campus. Details will be shared with interested candidates on selection.

Program Commencement

Program Starts: Last week October 2020

Initial 3 months at **Alliance University Campus in Bengaluru**

(If the Covid situation continues, the program shall be delivered online)

Course Fees

Course Fees: Rs 3,00,000/- (Rs. 3 Lacs only)
Education Loans available through all leading Banks & NBFCs

Minimum Assured Stipend

Placement Assurance – 100%
Learn & Earn - Earn a minimum stipend of Rs. 2.70 Lacs**
over the course duration (available from second semester onwards)

Minimum **Rs. 10,000 per month - 2nd Semester (7th - 12th month)
Minimum **Rs. 10,000 per month - 3rd Semester** (13th - 18th month)
Minimum **Rs. 25,000 per month - 4th Semester** (from 19th month)

(Successful completion of semester is mandatory to earn a higher stipend. Upon placement in companies as an intern or employee, the stipend will be discontinued. Terms and conditions applied)

Career Options

MTech in Computer Science & Engineering

Dev Ops
Full Stack Engineer

MTech in Data Sciences

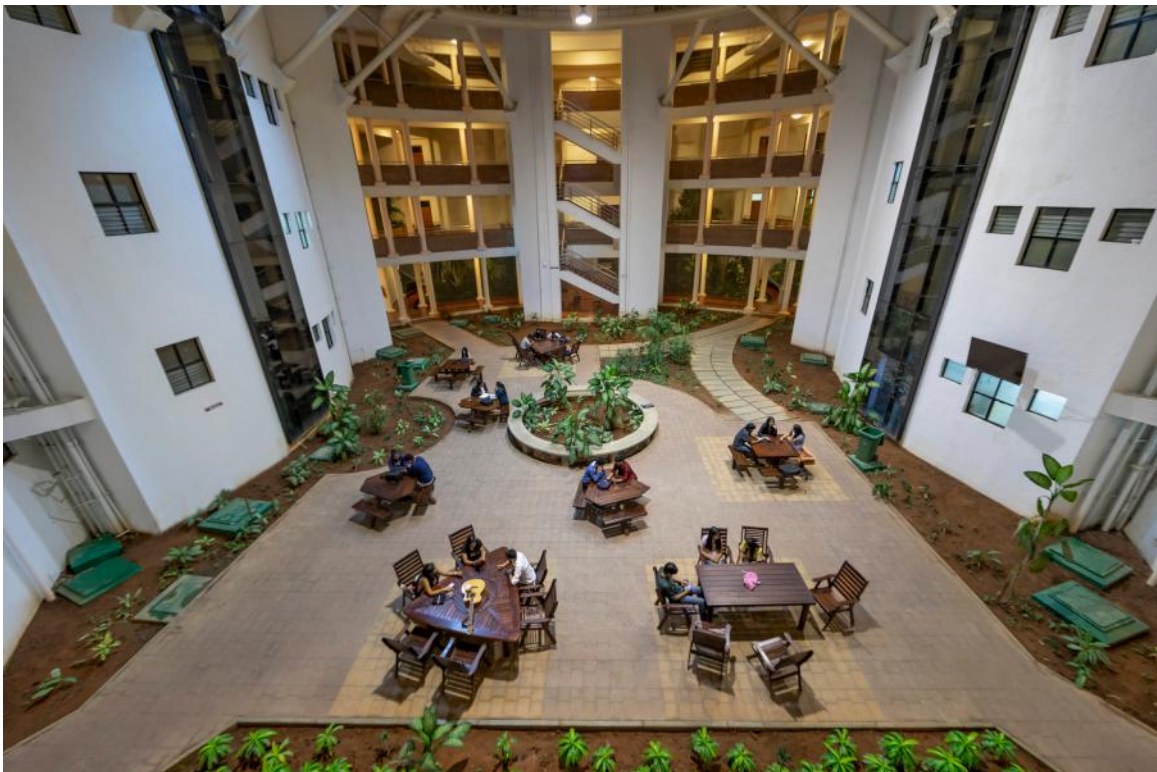
Data Scientist
Data Analyst

MTech in Robotics & IOT Solutions

Industrial Computer Engineer
Programmer
Robot Coordinator
IoT Solutions Architect
Industrial UI/UX Designer

MTech in Networking & Cloud Computing

Network Engineer
Cloud Data Centre Engineer
Cloud Architect



Testimonials

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Our relationship with Alliance has become stronger over the years. We appreciate the institute's efforts in having a robust educational and training system for creating managers and leaders for tomorrow. Our experience has been very satisfying with the kind of talent we have hired from Alliance.



Rohit Panda, Tata Consultancy Services
HR Business Consultant & People Transition Specialist

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Great initiative by the college to constantly connect the Industry personnel to the students and staff. The technology space is fast moving and everchanging industry, it's very important for colleges to highlight application and end products so that the students understand the importance of the fundamentals they study in their undergraduate programs and how it gets applied in real world problems and product design. Alliance is doing a great job in this... Kudos! and keep up the good work.



Dr. Shivananda Koteswar, Synopsis Inc
Group Director, DG Digital Implementation and R&D Head

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Students at Alliance University were well groomed to take up roles in corporate world. With some amount of developmental inputs from the organization they demonstrated required performance & behavior. They are energetic, determined and are trainable. I would say, we could find some really potential candidates for some roles in the Sales coordinated.



Deepak Mishra, United Breweries Limited
Associate Vice President - Corporate HR

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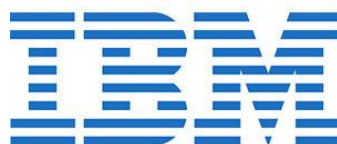
It was a wonderful opportunity to visit and interact with your engineering students. Thank you for your hospitality and intellectual discussions. Hoping to continue associating with your college for creating meaningful opportunities for the students.



Maj. Karthik Panchapakesan, TVS Motor Company
Deputy General Manager, HRD

Industry Partners

100+ Companies visited Campus (2019-2020)





Awards & Accolades



#7 Best Private University
India Today, 2018



#10 Best B-School in India offering
Global Business Courses, 2018



#39 Among Management
Institutes (including IIMs)



#18 Best MBA Program
full-time, Central Asia



#3 Best B-School under
Private University



Alliance University is a member of
The Association to Advance Collegiate
Schools of Business (AACSB), USA



Alliance School of Business is accredited
by International Accreditation Council for
Business Education (IACBE), USA



Alliance University was appraised with
Diamond Rating for Teaching, Employability
and Facilities in the QS I-GAUGE rating system.



Best University in Building
Industry Academia Interface at
National Education Awards, 2018



"Alliance University has been featured in
"Great Indian Institutes" Forbes India
Marquee 2018 - a special Marquee Edition in
association with SkillTree Knowledge Consortium
and Great Place To Study".



Awarded the Best Most Preferred Private University
of the Year - South and Most Preferred B-School Providing
Global Exposure by ASSOCHAM in 2020.

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