

coffee & CODE;

an initiative by Department of Computer Engineering

SEE
INSIDE

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Activities

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less known

Department's Vision

To be recognized globally, as a department provides quality technical education that eventually caters to helping and serving the community.

Department's Mission

To develop human resources with sound knowledge in theory and practical of computer science and engineering.

To motivate the students to solve real world problems to help the society grow.

To provide a learning ambience to enhance innovations, team spirit and leadership qualities for students.



Sundar Pichai
CEO, Google

“It is important to follow your dreams and heart. Do something that excites you.”

EDITED BY

Shubhangi Jena
Anushri Shetty
Parvathi Mohandas
Sidhi Nagarkar
Shaurya Gulati
Gunjan Mehta
Viral Jadav
Gouri Nair

DESIGNED BY

Robin Patoliya
Ashutosh Jena

ACTIVITIES

GOOGLE CLASSROOM

On 4 August 2018, Mrs. Kanchan Dabre had successfully conducted a session on implementing Google Classroom for the Computer Department. Each class has now created a separate folder in the respective user's Drive, where the students submit work to be graded by a teacher. The faculties monitor the progress for each student and after grading the students' work/assignment, teacher return workbook, with comments.



CONGRATULATIONS TO OUR ACHIEVERS

■ AYUSH SHETTY | TE COMPS

For Securing Second Place in the Story Telling Event at the District/Zonal Inter-Collegiate 51st Youth Festival held at University of Mumbai.

■ AYUSH GAJJAR | BE COMPS

For securing Second Place in the Cartooning Event at District/Zonal Inter-Collegiate 51 st Youth Festival held at University of Mumbai

For securing Second Place in the Cartooning Event at the Final Round of the Inter-Collegiate 51 st Youth Festival held at University of Mumbai

■ JISHNU MENON | BE COMPS

For securing First Place in the Mira-Bhayander Shuttler Championship.

Our Coffee and Code Team wishes these go-getters more power and growth.



ROUND THE CORNER!

TANTROTSAV

Tantrotsav, the intra-collegiate event, is a chance for all students of the Computer Department to showcase how deft one is when it comes to all things coding. The idea behind organizing such an exclusive technical event for our students is to mix a little play with the everyday programming. Such an event helps in identifying students' problem solving skills, application of the theoretical knowledge and flexing their creative muscles to realise innovative ideas.

Last year, our Computer Department had arranged for interesting events like D'code, Obfuscator, Web-kraft and App-a-thon which witnessed active participation for all the students.



CESA ACTIVITIES

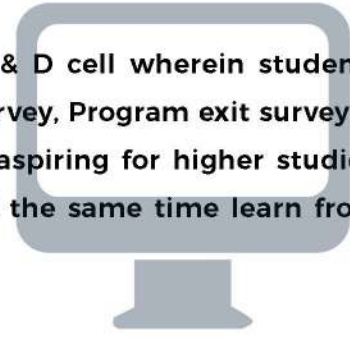
■ R & D CELL

Computer department has taken the initiative to launch our R & D cell wherein students are working on mini projects like online feedback form, Course exit survey, Program exit survey. We also have laid out a new foundation with TA & RA. Students aspiring for higher studies can perceive this as a great opportunity to boost their resume and at the same time learn from the various projects.

Faculty Co-ordinators : Mrs. Kanchan Dabre and Mr. John Kenny.

Student Lead : Varun Nair.

- We are happy to mention that as a part of our CESA undertaking, our Computer Department has adopted the Z.P.School, Kaman . On 27th July, 2018 three of our students - Nikunj Guna, Viral Jadav and Abhishek Singh visited their school and have readily contributed by fixing up the dysfunctional computers. We shall also keep assisting the school in whatever way possible and render help so that the school-going students can access technology easily.



IN ANOTHER NEWS

■ LAUNCH OF THE FIRST EVER NEWSMAG

The Computer Department has successfully launched the first digital edition of their Departmental Magazine in August, named Coffee and Code. All the Computer Engineering undergrads of our college were active attendees at the unveiling of the magazine. The event was graced by the presence of our On Campus Director, Dr. Jitendra Patil, Principal Dr. Ajoy Kumar, Head of Department Dr. Ekta M. Upadhyay.

Mrs. Hezal Lopes, the driving force behind the magazine shared her vision and extended her gratitude to all the students who were a part of this new venture - directly or indirectly.



■ **FORMATION OF TECHNICAL CLUB**

With an idea to form a cluster of like minded individuals who share the same zeal for the course they are undertaking, Computer Department has taken efforts to form a Technical Club. Students can come together, share ideas and form teams to attend various technical competitions taking place beyond the college premises. Such initiatives enkindle in students a spirit to tackle real time issues that very well meets the vision and mission of our Department.

Faculty co-ordinator : Mrs. Rucha Pathari and Mr. John Kenny.

■ **BRIDGING THE GAP**

Universal College of Engineering introduces Excellency Certification Courses by Quickheal. The college has organized Excellency Certification Courses in collaboration with top corporate company, Quickheal. The awareness meeting was held on 20 th August 2018, enlightening students about Cyber Security and Cyber Forensics.

The programs specified are 'Quick Heal Academy (QHA) certified Cyber Security Professional' for 2nd year students, 'QHA Program on Cyber Security Forensics and Law Part I' for 3 rd year students and 'QHA Programme on Cyber Security Forensics and Law Part II' for 4 th year students.

The courses offered are:

- Core Java and Advanced Java with Oracle WDP Certificate and Microsoft MTA Certification
- IOT Mapped with Oracle WDP Certificate
- Python Mapped to Microsoft MTA Certification 98-382
- ASP.NET with Cloud Mapped to Microsoft MTS Certification
- Business Analytics Mapped to Microsoft MTA Exam
- Microsoft Azure Content 70-532

■ **INTRODUCTION OF BRIDGE COURSES FOR FIRST YEAR STUDENTS**

As a part of constant efforts that are undertaken to help the students to help polish their skills, our department introduced the first year bridge courses. The courses held until now were, 'Basic Programming' whose main objective was to develop Google Doodle using C hour of the code. This activity was conducted by Mr. John Kenny, Mrs. Hezal Lopes, Mrs. Silviya Dmonte, Mr. Aniket Kore and Mr. Pranit Gaikwad where the students learned how to write the code without learning the programming languages.

'Computer skill', whose objective was to acquaint the students with basics of M.S.Office tools including drafting and presentation with the help of ICTC. Mr. Vishakha Shelke and Mr. Satish Manje delivered this course, wherein the students understood the basics, formula, conditional formatting and how to prepare graphical slides by using Microsoft Excel. To provide a platform as an effort to help students channelise their creative energies, 'Event Model Making' was introduced that taught the students qualities like team building, leadership and time management. The course details

were imparted to the students by Mr. Chinmay Raut, Mr. Sridhar Iyer, Mr. Aniket Kore and Mr. Kanchan Dabre. 'Computer Hardware Hands-On' whose main objective was to introduce different hardware parts of mother board was conducted by Mr. Rucha Pathari where the students gained knowledge about computer hardware parts.

BATCH OF '18 PLACEMENT DRIVE



Around 55 students from the Batch of '18 have been successfully placed with various well established firms and rising enterprises. The percentage of offers received for Universal College of Engineering's Placement Drive was 88% for 125 participants from the Computer Department.

Here's rolling out a detailed survey of the students' placement drive :

The highest percentage of students were offered appointment letter by QSpider Software and SportsTech India after successfully clearing the interview rounds. Firms like Kay Communication, Sutherland Global and the popular learning service venture Robokart have embraced the most befitting talents from our Department for their ecosystem and culture.

Other companies like ADROSONIC IT Consultancy Services Pvt. Ltd, Protegrity Solutions, Value Prospect Consulting, Xoriant, Zopper, MAQ Software, Taste India Hospitality Pvt. Ltd., KPIT Technologies Ltd., HRMantra, Ta-xO-Smart, Bauer Corporate Services, DXC Technology, ATC Global, Capgemini, Microland Limited, Wipro Tech, Yardi Software have also readily welcomed onboard one top pick each from the Batch of 2018.

Our Coffee and Code Team extends best wishes to the Batch of '18 for all their future endeavors!

OPPORTUNITIES GALORE

TAKE PRINCETON'S CRYPTO TECHNOLOGY CLASS FOR FREE

If cryptographic building blocks sound incredibly cryptic and you'd like to be more bitcoin-savvy, there's good news. You can be just like the Ivy League kids and take a class on it. In 2015, Princeton began offering a free version of its blockchain course on Coursera, where professors from top universities put online versions of their most popular classes. The next session for Princeton's 11-week Bitcoin and Cryptocurrency Technologies has started already. Each week includes a series of videos and graded homework. With an average rating of 4.7 out of 5 from 1,778 ratings, people seem to love it.



"After this course, you'll know everything you need to be able to separate fact from fiction when reading claims about bitcoin and other cryptocurrencies," the course description says. It's taught by Arvind Narayanan, an associate professor of computer science at Princeton.

IIT BOMBAY ANNOUNCES IT'S BUSINESS MODEL COMPETITION 'EUREKA-2018'

IIT Bombay's Entrepreneurship Cell has announced the launch of its business model competition, 'Eureka 2018', with prizes worth Rs. 50 Lakh. The five month long educational experience emulates the process of raising funds for a start-up, starting from a business plan to pitching it before an investor. The deadline for the first round is September 28, with the results due in January.

पाऊस

प्रत्येकाच्या आयुष्यात पाऊस हा वेगवेगळे तग धरून उभा आहे. प्रत्येकाच्या अंतरंगातून तो प्रत्येकाला वेगवेगळा भासतो. कुणी त्यावर सुमधुर धून बनवितो तर कुणी त्याच्या घट्ट मिठीत कवटाळून बसतो. एखाद चित्रकार सुयोग्य कुचल्यातून अप्रतिम रेखाटन करतो तर कुणी एखादा नवरा त्याच्या जीवावर बायकोकडून आवर्जून कुरकुरीत भज्याचे लचके तोडत असतो. पण ह्या जगात असा एकही मनुष्य नाही जो पावसाच्या प्रेमात नाही. प्रत्येक जण म्हणजे एखादा आडमुठा मनुष्य सुद्धा पहिल्या पावसाच्या तितक्याच प्रेमात असतो. मी सुद्धा त्याच्या दरवर्षी नव्याने प्रेमात पडणारी एक अशी. पाऊस दरवर्षी एकसारखाच भासतो पण त्याच्या बरसण्यामागील रंग हे अतिशय विलक्षण आहेत. तो कोसळण्याच सुख अगदी आगळवेगळं आहे जे मनाच्या रुंद कप्प्यात खोलवर रुतून बसत. माझ्यामते पाऊस हा निस्वार्थी आहे. त्याला माणसाप्रमाणे खोटे मुखवटे नाहीत.ना मनात कसला धुर्तपणा आहे त्याच जे आहे जस आहे सर्वासमोर आहे. त्याला माणसाकडून कसलीच अपेक्षा नाही,ना अट्टाहास बादल्या, पाण्याच्या टाक्या ह्यात साठवून ठेवायचा. ते सर्व आपल्यावर अवलंबून आहे तो त्याच कोसळण अविरत पणे सुरू ठेवतो. पाऊस माणसापेक्षा ही मोठ्या मनाचा आहे तो सर्वांच्या दारात एकसारखा एकसमान कोसळतो.त्याला माणसाप्रमाणे गरीब ,श्रीमंत असा अजिबात भेद नाही. तो गरीबाच्या दारातही तेवढाच पडतो जेवढा श्रीमंतांच्या. माणूस म्हणून आपण अनेकदा भेद,राग,मत्सर,अहंकार,घृणा लेवून जगत असतो मात्र ह्या अबोल पाऊसाच अस काहीच नसत. त्यांकडून आपण प्रामाणिकपणा आणि नुस्वार्थीपणा नक्कीच शिकावा. त्याच्या ४महिन्याच्या शाळेत भरभरून शिकावं.आणि त्यातील चांगुलपणा नक्की आत्मसात करावा. पाऊसाचा आवेग हा झेललाच पाहिजे . असा ती बाहेर सरसकट पडत असताना आपण आपल्या दाराच्या खिडक्या नाही बंद करायच्या त्याचा हळवा आवेग मनमुरादपणे झेलायचा. पाऊसा तू खूप सुंदर आहेस आणि माझे तुझ्यावर जिवापाड प्रेम आहे.

- A Prose Poem by Ms.Sonali Mangela (Lab Assistant-Computer Department)



AI - HUMAN PARTNERSHIPS TACKLE FAKE NEWS

During the 2016 U.S. presidential election, inaccurate and misleading articles burned through social networks. Since then, tech companies—from behemoths like Facebook and Google to scrappy startups—have built tools to fight misinformation (including what many call “fake news,” though that term is highly politicized). Most companies have turned to artificial intelligence (AI) in hopes that fast and automated computer systems can deal with a problem that’s seemingly as big as the Internet.

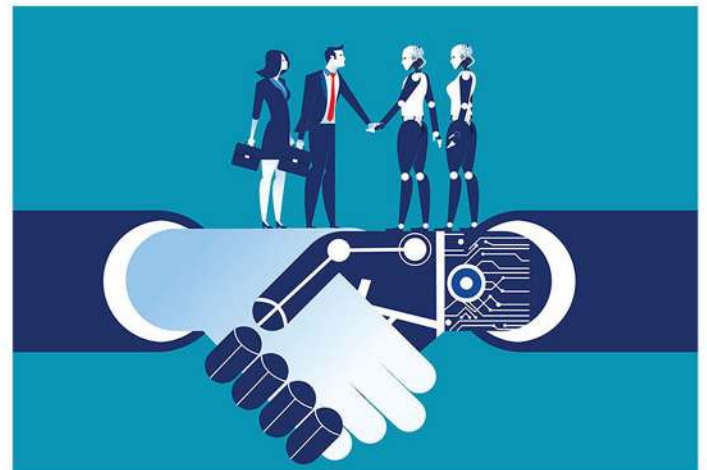
“They’re all using AI because they need to scale,” says Claire Wardle, who leads the misinformation-fighting project First Draft, based in Harvard University’s John F. Kennedy School of Government. AI can speed up time-consuming steps, she says, such as going through the vast amount of content published online every day and flagging material that might be false.

The London-based startup Factmata, whose high-profile investors include Twitter cofounder Biz Stone and Craigslist founder Craig Newmark, is developing an AI system with a different approach. It specifically does not look at the content’s publishers, says Factmata founder Dhruv Ghulati. “We want to judge content based on content itself,” he says.

Factmata’s system is also a hybrid of human and machine, though in a different configuration: The humans are experts who label content used for the AI’s training. “Things like fake news and propaganda are inherently

“Things like fake news and propaganda are inherently nuanced and subjective,” Ghulati says. “It does require expertise to understand the nature of the content and tag it appropriately.” With that proprietary data set, Factmata is training its AI to recognize politically biased content, false content, and hate speech.

Satire is one of the toughest problems for AI systems that try to identify false content. Companies are also grappling with misinformation in images, videos, graphs, and other nontextual content. The possibilities for deception seem endless: A photograph might be legitimate, for example, but its caption may be misleading.



Today’s AI systems may not be ready to parse complicated claims independently or to make sophisticated decisions about truth, says Ghulati of Factmata, but that doesn’t mean they shouldn’t be deployed now. “The risk is that you try to get the perfect definition of fake news and never reach an answer,” he says. “The important thing is to build something.”

Source : IEEE Spectrum-Sept

WALMART, IBM BLOCKCHAIN INITIATIVE AIMS TO TRACK GLOBAL FOOD SUPPLY CHAIN

Walmart and nine other companies have partnered with IBM in order to release a blockchain for tracking food globally through its supply chain, The Wall Street Journal (WSJ) reports June 25.

The Food Trust blockchain, includes Nestlé SA, Dole Food Co., Driscoll's Inc., Golden State Foods, Kroger Co., McCormick and Co., McLane Co., Tyson Foods Inc. and Unilever NV. The WSJ states that the Food Trust's goal is to improve the companies' ability to identify issues involved with food recalls, such as tracing outbreaks more quickly to limit customer risk.



Walmart's vice president of food safety, Frank Yiannas, referred to the Food Trust blockchain as the "equivalent of FedEx tracking for food." "You're capturing real-time data at every point, on every single food product." According to IBM, the Food Trust system stores the data of about 1 million items, specifically noting Nestlé canned pumpkin, Driscoll's strawberries and Tyson chicken thighs.

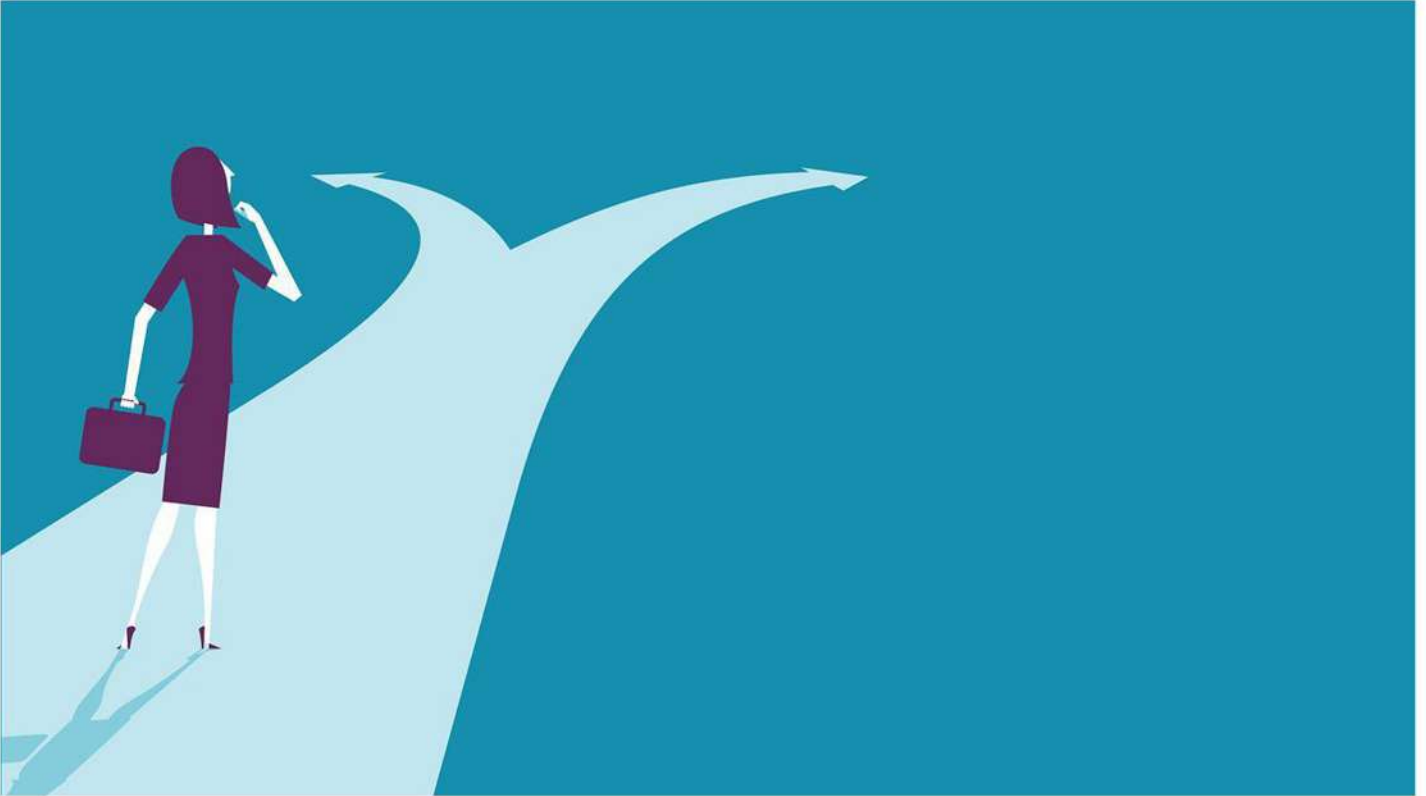
In April, Walmart had announced that it was ready to use blockchain for its live food business. The company has recently been awarded a patent for blockchain chain use for medical records as well, and has filed a patent for a blockchain-based customer marketplace for reselling Walmart goods.

TOUR DE SMART-PHONE

How many times have you been on a trip, deep in serious conversation on your cellphone, when you suddenly notice that the phone's battery is nearly drained? In just about any of the world's transit hubs, you'll find travelers scrambling to claim one of the precious few wall outlets for the electricity that someone else provides.



But at least a few airports and railway stations have started changing the game, setting up public charging stations that require you to provide your own energy. At this bicycle-powered charging kiosk, installed in a railway station in Istanbul, a generator delivers charge to your electronic device as you pedal—turning your muscle power into the ability to tweet and send emails.



LOGISTICS

Logistics covers the physical movement of materials - the transfer of raw materials to manufacturing facilities or the distribution of products to customers - as well as all the planning and financial transactions involved in these operations. It covers processing and tracking orders, working with planning departments to check availability of products, forecasting to meet changes in the market, and dealing with contracted services such as shipping.

- As a logistician, you will apply your problem-solving and logical-thinking skills to problems and situations as they arise.
- Every situation also requires a cost-benefit analysis. You need to consider the impact of your decisions on the business as a whole, so it's important to be able to see the bigger picture.
- Good communication skills are essential. You have to be clear and accurate in what you say to colleagues and customers, particularly when you meet resistance to changes in procedures.

OPERATIONS MANAGEMENT

Operations management is a crucial link between the different parts of the manufacturing process and the business side of a manufacturing organisation. The aim is to assess and improve the day-to-day running of, for example, a manufacturing plant, by implementing systems to increase productivity and reduce costs. You also need to plan ahead and put strategies in place for future development.

- Communication and interpersonal skills are invaluable: you will have to work with people running the systems and processes and find quick solutions to problems based on the information you receive.
- You will use your analytical thinking to get the most from the data, and learn how to deal with problems that can have a huge impact on how processes work.

PATENT LAW AND INTELLECTUAL PROPERTY

A patent attorney is a specialised legal professional who is qualified to write, obtain and advise clients about patents and to protect the intellectual property (IP) rights in commercial products or processes. A legal background is not required, however, the essential requirement for patent law is technical expertise. Patent attorneys may deal with patents, which protect technological innovations, and with other types of IP such as registered and unregistered designs, which protect the shape and appearance of products. A patent attorney can work for a private firm or an organisation's in-house patent department.

- In addition to a good degree and broad-based interest in engineering, excellent communication skills are essential, particularly written skills.
- You need to be comfortable dealing with clients, working to tight deadlines and handling several projects at once.
- There is a long training period followed by exams - it may take from three to five years to qualify.

PROCUREMENT, PURCHASING AND BUYING

Procurement is the process of buying equipment and parts for projects at the right price and quality, so that they can be delivered to where they need to be at the right time. As such, procurement careers cover a wide range of activities, including: drawing up lists of preferred suppliers; choosing suppliers based on quality, price and schedule; checking progress and quality; and working with logisticians to ship the equipment to site.

- A wide range of skills are required to be successful.
- Orders can be worth millions of pounds, so buyers have to cost equipment accurately.
- Selecting a suitable vendor can involve negotiation so excellent communication skills are vital.
- Timescales are tight, so you have to think on your feet and understand what's going on in all departments.
- An engineering background means you'll have a technical understanding of the equipment you're buying, so you can better estimate timescales and the impact of any changes.

SUPPLY CHAIN MANAGEMENT

Supply chain management involves managing raw materials, production lines, manufacturing processes and logistics to maintain a supply of high-quality products to customers. It's all about perfecting the processes in the chain to provide the best service for customers, while at the same time minimising costs and ensuring the safety of employees.

- Analytical and investigative skills are also important for seeking out new opportunities and proposing new schemes to make the business more profitable.
- An engineering background may make it easier to pick up technical knowledge, which will help when making business decisions.

TEACHING, ACADEMIA AND LECTURING

Many people are first attracted to engineering because they like applying science and using their problem-solving skills. Why not use your knowledge of these processes to help train others and turn young scientists into budding engineers? Teaching an engineering related subject enables you to look at the creative aspects of engineering and help students to develop their own problem-solving skills. You can use real-world examples from your degree and any time spent in business to bring technical and scientific concepts to life. You will need some experience of working with children, enthusiasm for your subject, and strong communication skills.

- You could also use your engineering background to stay in academia and become a higher education lecturer, specialising in a particular area.
- You will need in-depth technical knowledge of specialist areas, as well as the ability to communicate this to others clearly using tutorials, lectures, and practical laboratory work. when making business decisions.

TECHNICAL CONSULTING

Technical consultants help organisations to solve their business problems. This could cover anything that might impact on the profitability of an organisation so, if you are interested in the broader world of business, this may be the option for you. You will use data analysis and statistical modelling to come up with creative solutions to business problems. You will need excellent analytical and communication skills to present complex information and results to clients, who will often include top management.

- As a trained engineer it will be easier to back up your opinions with technical knowledge and analysis.
- Your logical reasoning and problem-solving skills will be invaluable, and you will need to be comfortable dealing with numbers and large volumes of data.
- You may also need your technical knowledge to advise on the implementation of specialist technology or equipment.

TECHNICAL SALES

Technical sales involves using your engineering knowledge to win future business. You will need to draw on your organisation's expertise and skills to present innovative ideas that meet your clients' requirements. For this, you'll need a solid understanding of both the business and the needs of its clients. A strong engineering background is essential to be credible in technical sales - you need to understand any technical issues and challenges, and advise the client on how your organisation can help them. You will need to work with people across your organisation, including those in research, development, design and purchasing, to ensure you have a full understanding of the product or service.

- Being disciplined and having a positive outlook will take you far in a sales environment.
- Most importantly, you need to be good at listening to the client, absorbing and interpreting information and then communicating it to others.
- Winning new business is what makes technical sales people tick.

TECHNICAL TRAINING

Businesses need to ensure their employees can use, sell, install and operate complex equipment and technological systems. For this, technical trainers are key - they have the technical expertise and communication skills to train workforces on topics such as technical standards, company-specific software packages, manufacturing equipment and health and safety processes.

- You may work for an agency, or be part of an internal human resources and development team.
- You will need strong presentation and organisational skills, and the ability to communicate with people of all levels.
- You will also need to keep on top of industry developments and potentially work with course providers and examining bodies to ensure the appropriate accreditation.

PROMISING STARTUPS

Name of the student : Sagar Mistry

Name of the company : Sammey INC.

Website : www.sammeyinc.com

Services offered : Android Application Development, iOS Application Development, Website Development, ECommerce Development, Search Engine Optimization, Individual / Corporate Domain And Hosting Services, Virtual Private Servers, Desktop Application Development, Online Business / Service Strategy Suggestion, Basically All Digital / Computing Services Offered.

Clients so far : Kreartors Pvt. Ltd, Star Dance And Fitness Company, Kuber Associates, Seven Strings Music, Currently Working On Project In Collaboration With Singapore Universities And British Council.

Name of the student : Aditya Gosalia

Name of the company : Adiolystudios

Website : www.adiolystudios.com

Services offered : Android app development, ios app development, Website development, Graphics designing, Provide domain and hosting, UI/UX designing.

About : We at Adiolystudios focus on leveraging the apps with latest technologies and modest development methodologies. Our Product Strategists, Business Analysts, UI/UX Designers, Developers & Quality Analysts always outperform to conceptualize, prototype and develop an innovative mobile app.

Adiolystudios comprises of energetic, enthusiastic & creative professionals who are fond of doing extra ordinary things so as their contribution counts in providing ease to the life of an individual & business. In a very short span we have emerged as a reliable and trusted one stop mobility solution provider to various entrepreneurs, startups and enterprises.

Our Coffee and Code team wishes all these go-getters more power and growth!

The Computer Department of Universal College of Engineering and our Coffee and Code Team is extremely happy to present you with the first edition of our departmental newsletter-cum-magazine. For any queries, suggestions and/or contributions for the next edition, you can write to us at coffeandcode.comps@gmail.com