

The Communique

Department of Computer Science

2020 - 21

International University Collaboration



Aravali College of Engineering & Management,
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Approved by A.I.C.T.E, Ministry of HRD, Govt. of India Affiliated to J.C. Bose University of Science & Technology, YMCA, Faridabad



 acem.edu.in



*The
Communique*

Department of Computer Science



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Message from the CHAIRMAN

As we all know that education, business, profession, in fact, everything is changing at a fast pace globally. We need to be right there or we will be left behind. Hence the need arises to impart high-quality education along with the latest infrastructure, that is what our college focuses on and we know that by putting the right people on the job we can make it the biggest success story of our times. Our focus is on a balanced education that encompasses the tradition of ethics and the needs of a changing world.

Today, more than at any time in history, technology is changing. It has the power to transform economic, social, cultural and environmental situations of our country, so that our countrymen have food, shelter, education, healthcare and employment within a given time-frame. Aravali College of Engineering and Management, Faridabad, is dedicated to the task of making India a knowledge society by creating scientists, engineers and managers of proven capability.

The main goal is that the child not only becomes a successful individual in this vibrant and dynamic environment but also becomes a better human being that will make him responsible and a good citizen by upholding our values and ethics while maintaining their separate identity. The college aims at holistic development of a child. Our emerging profile is to equip our students and teachers with talent. Technologies and resources are developed so that they are ever ready to help our corporate sectors and leaders in the global market. I invite you to explore this unique and fulfilling field of study and join hands to realize the dream of becoming the next knowledge superpower. Looking forward to your co-operation.

The greatest gifts you can give your children are the roots of responsibility and the wings of independence.

Shri Dhan Singh Bhadana
Chairman



Message from the DIRECTOR



Dear Student,

Congratulations on joining the Aravali College of Engineering and Management family. I am delighted to welcome you to the ACEM, where we pursue excellence in all the institute activities in an attempt to transform young students into responsible and professional engineers/managers with a sense of social responsibility, human values and concern for the environment. Today, as our society becomes increasingly global, diverse, and technologically complex, we continue to find innovative ways to provide education that will equip you to make your mark on the world.

The contemporary design of our state-of-the-art labs, smart classrooms, meeting spaces, research and teaching areas etc., is an integral expression of our commitment to creating a physical environment that can sustain the production of learning and knowledge in the 21st century. We continuously strive to train the students to become excellent scientists, engineers, technologists, thinkers, managers and leaders of the society. In addition to developing scientific and managerial skills, students are also encouraged for entrepreneurship. For this the college has a full-fledged Entrepreneurship Development Cell.

ACEM is approved by AICTE and affiliated to J.C. Bose University of Science and Technology, YMCA, Faridabad and offers a four-year B.Tech programme in four branches, viz., Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering and Civil Engineering. At ARAVALI, we have created next generation futuristic Value added programs designed specifically to meet the Industry requirements that are backed by World's Leading Software Companies. The students of computer science Engineering are trained for latest languages and technologies like Machine learning, Data Science, Data Analytics etc. To further strengthen theoretical concepts, the students are made aware of the practical implementation through Laboratory work, ongoing projects, programming competitions and Industry relevant courses. The students are encouraged to work on live projects on various platforms.

The institute has a very active training and placement cell which takes special initiatives to prepare the students for placements with the aim that every student gets at least one offer letter by the time they leave the institute. Since India has decided to go digital, IT field is booming rapidly. There is a huge demand of computer engineers in the market now. The scope of placement after pursuing computer science engineering is very high. Big organizations like Infosys, Wipro, HCL, TATA Consultancy service (TCS) are the major recruiters in addition to many more.. A fresher at IT companies is offered 3 Lakh to 4 Lakh of package per annum. The scope of growth in IT industry is very wide.

I sincerely hope that your academic journey with ACEM will be fruitful and enjoyable in every aspect and the experiences you gain here and the moments you spend here will be cherished by you all your life.

Wishing you the very best.

Prof. (Dr) Suresh Kumar Jindal
M.Tech.(IIT Kharagpur), Ph.D

Message from the HEAD OF DEPARTMENT



Dear Parents and Students,

I would like to extend a hearty welcome to the Department of Computer Science.

The department, which offers B Tech (CSE) and BCA programmes, aims to provide high quality education along with training the students in the latest technological knowhow.

The department lays emphasis on all the important aspects of computers such as Data Structures, Design and Analysis of Algorithms, Computer Networks, Compiler Design, Operating Systems, System Software, Database Management Systems, Computer Graphics and Visualization, Software Architecture, Cloud Computing, and many more. We also take initiatives to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the global competition.

We also plan to develop entrepreneurial skills among the students so that they would drive the spirit of growth of our economy and generate employment opportunities for other qualified and skilled people.

Our faculty members aim at delivering top class education blending their rich research experience with classroom teaching. The department motivates the staff members to pursue higher studies and encourages them to attend conferences, workshops and publish papers in national / international conferences/journals.

I look forward to preparing my students to face the challenges in this competitive world, and succeed in offering technological solutions for the betterment of the society and our nation at large.

Prof. (Dr) Manoj Wadhwa
Ph.D, M.Tech., M.Sc



THE DEPARTMENT

The Department of Computer Science was established at Aravali, in the year 2008, with the objective of imparting quality education in the field of computer science.

With rapidly evolving technology and continuous need for innovation, the department has been producing quality professionals, holding important positions in the Information Technology industry both in India and abroad.

The department started B.Tech - Computer Science & Engineering programme in the year 2008. The programme focuses on providing a sound theoretical background as well as good practical exposure to students in the relevant areas. It intends to provide modern, industry-oriented education in the field of computer science. It aims at producing trained professionals who can successfully meet the demands of the IT industry. It also aims to obtain skills and experience in an up-to-date approach to analysis, design, implementation, validation, and documentation of computer software and hardware.

The department started Bachelor of Computer Applications (BCA) course in the year 2017 with the aim to develop core competence in Computer Science and to prepare the students to take up challenges of research and development. The students have the ability to apply a high level of theoretical expertise and innovation to complex problems and application of new technologies.

Get Ready for 'THE NEXT BILLION'

VISION

To become a prominent Department of Computer Science and produce competent professionals with research, analytical and innovative skills, including moral values and societal concerns.

MISSION

- * Providing learning ambience to generate innovative and problem-solving skills with professionalism.
- * Creating facilities and expertise in advanced computer technology thereby promoting research culture and innovative thinking.
- * Enhancing Industry-Institute Interaction Programme to enrich teaching and research corporate culture.
- * Inducing ethical values and spirit of social commitment.

FACULTY



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Professor & HOD
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Experience: 20 years of Teaching
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Academic PROGRAMMES



With the intent to facilitate people with intelligent devices, Computer Science & Engineering is taking a clear drift by revolutionizing network technologies, transforming the ways data has been used and stored, delivering scalable software and hardware resources that are connecting the world and various domains at an unimaginable pace.

This advent has led the job market in computers to shift towards specialized domains and industry is engaging specialists who will be able to ensure meeting ever changing demands of this socio-technical discipline.

At ARAVALI, we have created next generation futuristic value added programmes designed specially to meet the industry requirements that are backed by world's leading software companies. More than 200 software and IT companies such as Amazon, Microsoft, HP, SAP Labs, Deloitte, IBM are hiring our students. Computer Science & Engineering is a dynamic and versatile subject that promises a galore of opportunities for today's supersonic generation.

The department of Computer Science & Engineering is fully equipped with the best of intellectual, capital and state-of-the-art labs. The main focus is to provide the students with the latest technologies available in the market so as to keep them abreast with the emerging trends in the field.

The department has experienced faculty members having Ph.D degrees and publications in National and International Journals.

It has the vision to "Evolve into a Centre of Excellence for Education and Research in Computer Science & Engineering" through academic excellence, collaborative research and value added courses to produce highly competent and socially conscious information technology professionals. Apart from knowledge and skills, the association programmes conducted by the department aim to develop the all round personality by inculcating values of truthfulness, genuineness, team spirit and vibrant work culture.

Course Structure

B.Tech Computer Science & Engineering

Semester 3:

- Analog Electronic Circuits (ESC-301)
- Data Structure and Algorithms (PCC-CS-301)

- Digital Electronics (ESC-302)
- Mathematics-III (Calculus and Ordinary Differential Equations) (BSC-301)
- Effective Technical Communication (HSMC-01)
- IT Workshop(MATLAB) (PCC-CS-302)
- Analog Electronic Circuits LAB (ESC-303)
- Digital Electronics LAB (ESC-304)
- Data Structures & Algorithms LAB (PCC-CS-303)

Semester 4:

- Discrete Mathematics (PCC-CS-401)
- Computer Organization & Architecture (PCC-CS-402)
- Operating System (PCC-CS-403)
- Design & Analysis of Algorithms (PCC-CS-404)
- Organizational Behavior/ Finance & Accounting (HSMC-03/ HSMC-04)
- Environmental Sciences (MC-03)
- Computer Organization & Architecture LAB (PCC-CS-405)
- Operating System LAB (PCC-CS-406)
- Design & Analysis of Algorithms LAB (PCC-CS-407)

Semester 5:

- Signals & Systems (ESC-501)
- Database Management Systems (PCC-CS-501)
- Formal Languages & Automata (PCC-CS-506)
- Object Oriented Programming (PCC-CS-503)
- Economics for Engineers (HSMC-02)
- Elective –I (PEC-CS-<Stream>-501)
- Constitution of India (MC-01)
- Database Management Systems LAB (PCC-CS-504)
- Object Oriented Programming LAB (PCC-CS-505)

Semester 6:

- Compiler Design (PCC-CS-605)
- Computer Networks (PCC-CS-602)
- Elective-II (PEC-CS-<Stream>-601)
- Elective-III (PEC-CS-<Stream>-602)
- Open Elective-I (Humanities) (OEC-CS-601)
- Open Elective-I I (OEC-CS-602)
- Project-I (PROJ-CS-601)
- Compiler Design LAB (PCC-CS-606)
- Computer Networks LAB (PCC-CS-604)

Semester 7:

- Elective-IV (PEC-CS-<Stream>-701)
- Elective-V (PEC-CS-<Stream>-702)
- Elective-VI (PEC-CS-<Stream>-703)
- Open Elective-III (OEC-CS-701)
- Open Elective-IV (OEC-CS-702)
- Biology (BSC-01)
- Project-II (PROJ-CS-701)

Semester 8:

Industry Internship*
(PROJ- CS-801)

Bachelor of Computer Applications (BCA)

Semester 1:

- Computer & Programming Fundamentals(BCA-17-101)
- PC Software (BCA-17-102)
- Mathematics (BCA-17-103)
- Logical Organization of Computer-I (BCA-17-104)
- PC Software lab (BCA-17-105)

Semester 2:

- 'C' Programming (BCA-17-106)
- Logical Organization of Computer-II (BCA-17-107)
- Mathematical Foundation of Computer Science (BCA-17-108)
- Structured system analysis and design (BCA-17-109)
- 'C' Programming Language (BCA-17-110)

Semester 3:

- Introduction to Operating System (BCA-17-201)
- Data Structure (BCA-17-202)
- Database Management system (BCA-17-203)
- Communication Skills (BCA-17-204(A))
- Environmental Science (BCA-17-204(B))
- Data Structure and SQL LAB (BCA-17-205)

Semester 4:

- Web designing (BCA-17-206)
- E-Commerce(BCA-17-207)
- Object oriented programming using C++(BCA-17-208)
- Software engineering(BCA-17-209)
- HTML and C++ Lab(BCA-17-210)
- Seminar(BCA-17-211)

Semester 5:

- Object Technologies and programming (BCA-17-301)
- Computer Graphics (BCA-17-302)
- Data Communication and Networking(BCA-17-303)
- VB.NET (BCA-17-304)
- Java and VB.net LAB (BCA-17-305)

Semester 6:

- Mobile Application and Development (BCA-17-306)
- Software Testing (BCA-17-307)
- Artificial Intelligence (BCA-17-308)
- Major Project (BCA-17-309)
- MAD and AI lab (BCA-17-310)

Course Benefits

- Ability to design software and hardware system, and the process to meet the desired requirements within constraints.
- Knowledge of statistics and probability including their application to computer science and engineering.
- Knowledge of algorithms and data structures.
- Ability to apply design and development principles in designing of software systems.
- Knowledge of concepts of computer programming languages.
- Problem analysis and solution design.
- Ability to apply mathematics, computer science theory and algorithm principles in modelling and designing of computer-based systems.

Career Possibilities

From games developer to manager of IT and communications services, there is a range of possibilities open to a computer science graduate.

- Application Analyst
- Applications Developer
- Data Analyst
- Database Administrator
- Games Developer
- Information Systems Manager
- IT Consultant
- Multimedia Programmer
- SEO Specialist
- Software Engineer
- Systems Analyst
- UX Designer
- Web Designer
- Web Developer
- Digital Copywriter
- IT sales Professional
- IT Trainer
- Nanotechnologist
- Network Engineer
- Social Media Manager
- Technical Author
- Web content Manager
- Applications Developer
- Mobile Applications Testing Specialist
- Enterprise Mobile
- Mobile Architect / Mobile Software Platform Architect
- Mobile Technical Consultant
- Mobile Security Expert
- Technical Support Engineer (Mobility)
- Testing Specialist
- Technology Architect / Smart City Solutions Architect
- Technical Consultant for IOT & Smart City
- Security Expert



Value Added Course / Online Certification

Web Technologies

HTML : HTML (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JavaScript).

"Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content on the internet and linking it to pages created by other people, one becomes an active participant in the World Wide Web.

Certification:

- Modern web design from "Gymnasium" HTML5 & CSS3 fundamentals.
- Development for absolute Beginners from "Microsoft".
- Introduction to new feature of HTML 5 from "Alison".

CSS : CSS stands for Cascading Style Sheets. CSS is a standard style sheet language used for describing the presentation of the web pages. Prior to CSS, nearly all of the presentational attributes of HTML documents were contained within the HTML markup (specifically inside the HTML tags); all the font colors, background styles, element alignments, borders and sizes had to be explicitly described within the HTML.

Certification:

- HTML5 & CSS3 fundamentals:
- Development for absolute Beginners from "Microsoft".
- HTML and CSS for Beginners - Build a Website & Launch ONLINE from "udemy".

Web Development:

Web development broadly refers to the tasks associated with developing website for hosting via intranet or internet. The web development process includes web design, web content development, client-side/server-side scripting and network



security configuration, among other tasks.

Certification:

- ✳ Full-Stack Web Development with React from “Coursera”.
- ✳ UX fundamentals from “gymnasium”.
- ✳ UX design for beginners from “Udemy”.

Cloud Computing:

Cloud computing is a general term for anything that involves delivering hosted services over the internet. These services are broadly divided into three categories: Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS). The name cloud computing was inspired by the cloud symbol that's often used to represent the internet in flowcharts and diagrams.

Certification:

- ✳ Introduction to cloud computing from “Udemy”.
- ✳ Cloud Computing from “Coursera”.
- ✳ Introduction to mobile and cloud computing from “Alison”.

Programming Language

Programming in C:

C is a general-purpose programming language that is extremely popular, simple and flexible. It is machine-independent, structured programming language which is used extensively in various applications. C was the basic language to write everything from operating systems (Windows and many others) to complex programs like the Oracle database, Git, Python interpreter and more.

Certification:

- ✳ Introduction to Programming in C from “Coursera”.
- ✳ C Programming - Master the C Language from “UDEMY”.
- ✳ Introduction to C Programming from “Alison”.

C++:

C++ is a general-purpose object-oriented programming (OOP) language, developed by Bjarne Stroustrup, and is an extension of the C language. It is therefore possible to code C++ in a "C

style" or "object-oriented style."

Initially, the language was called "C with classes as it " had all the properties of the C language with an additional concept of "classes." However, it was renamed C++ in 1983.

Certification:

- ✳ Programming in C/C++ from "Microsoft India".
- ✳ Programming in C++ from “Aptech”.
- ✳ C++ for C Programmers from “Coursera”.

JAVA:

Java is a programming language that produces software for multiple platforms. When a programmer writes a Java application, the compiled code (known as bytecode) runs on most operating systems (OS), including Windows, Linux and Mac OS. Java derives much of its syntax from the C and C++ programming languages.

Certification:

- ✳ Java Programming and Software Engineering Fundamentals from “Coursera”.
- ✳ Java programming: Learning from scratch from “codegym.cc”.
- ✳ JavaScript Fundamentals for Absolute Beginners from “Microsoft”.

C#:

C# is a general object-oriented programming (OOP) language for networking and Web development. C# is specified as a common language infrastructure (CLI) language.

Initially, C# was developed as C-Like Object Oriented Language (Cool). The actual name was changed to avert potential trademark issues. In January 2000, NET was released as C#. Its NET framework promotes multiple Web technologies.

Certification:

- ✳ Programming in C# from “Aptech”.
- ✳ C# Fundamentals for Absolute Beginners from “Microsoft”.
- ✳ Introduction to C# Programming and Unity from “Coursera”.

Data Science & AI

Python:

An interpreted, object-oriented programming language developed by Guido van Rossum. The name comes from one of van Rossum's favorite television shows, Monty Python's Flying Circus. Python is very portable since Python interpreters are available for most operating system platforms. Although Python is copyrighted, the source code is

open source, and unlike GNU software, it can be commercially re-sold.

Certification:

- ✳ Python for Everybody from “Coursera”.
- ✳ Applied data science with Python from “Coursera”.
- ✳ Certified Entry-Level Python Programmer from “Python Institute”.

R:

R possesses an extensive catalog of statistical and graphical methods. It includes machine learning algorithm, linear regression, time series, statistical inference to name a few. Most of the R libraries are written in R, but for heavy computational task, C, C++ and Fortran codes are preferred. R is not only entrusted by academic, but many large companies also use R programming language, including Uber, Google, Airbnb, Facebook and so on.

Certification:

- ✳ Statistic with R from “Coursera”.
- ✳ Introduction to R from “Data camp”.
- ✳ R programming for absolute beginners from “Udemy”.

Ruby on Rails:

Ruby on Rails is an open source software, so not only is it free to use, you can also help make it better. Learning to build a modern web application is daunting. Ruby on Rails makes it much easier and more fun. It includes everything you need to build fantastic applications, and you can learn it with the support of our large, friendly community.

Certification:

- ✳ Ruby on Rails Development from “Coursera”.
- ✳ Learn ruby on rails from scratch from “Udemy”.
- ✳ Grow your ruby on rails skills from “Pluralsight”.

Data Science:

Data Science is the area of study which involves extracting insights from vast amount of data by the use of various scientific methods, algorithms, and processes. It helps you to discover hidden patterns from the raw data. The term Data Science has emerged because of the evolution of mathematical statistics, data analysis, and big data.

Certification:

- ✳ IBM Data Science Professional Certificate from “Coursera”.
- ✳ Professional Certificate in Data Science from “online-learning.harvard.edu”.



Applied Data Science with python from “coursera”.

Artificial Intelligence:

A machine with the ability to perform cognitive functions such as perceiving, learning, reasoning and solving problems are deemed to hold an artificial intelligence.

Artificial intelligence exists when a machine has cognitive ability. The benchmark for AI is the human level concerning reasoning, speech, and vision.

Certification:

- ✳ Microsoft Professional capstone : Artificial Intelligence from “edx”.
- ✳ Introduction to artificial intelligence (AI) from “edx”.
- ✳ Course:CS405: Artificial Intelligence from “Saylor”.

ERP

Salesforce:

In recent years, there has been a big surge in Cloud Computing Technologies. One such technology which has had an immense impact on the world of computing is Salesforce. Before Salesforce, Customer Relationship Management (CRM) solutions were hosted on a company’s own server. Started as a Software as a Service (SaaS) company, Salesforce has grown into the fifth-largest software company in the world.

Certification:

- ✳ Salesforce Lightning 2019 certified administrator part 1 from “Udemy”.
- ✳ Learn Salesforce from “Pluralsight”.
- ✳ Salesforce certification training from “Edureka”.

People Soft:

Certification:

- ✳ People Soft human capital management training from “Oracle University”.
- ✳ People Soft HRMS training from “Mindmajix”.
- ✳ Oracle People Soft HRMS Rel 9.1 from “Multisoft Virtual Academy”

MS Suite

Certification:

- ✳ Microsoft certification from “Microsoft”.
- ✳ Microsoft office specialist program from “Certiport”.
- ✳ G suite administrator fundamental from “Coursera”.

SAP:

Certification:

- ✳ SAP Courses from “Open SAP”.
- ✳ Excel at your sap certification from “SAP training”.
- ✳ SAP global certification from “SAP”.

Deployment

AWS:

Certification:

- ✳ AWS CONCEPTS from “Udemy”.
- ✳ The complete IOS 10 developer- create real apps in swift 3 from “Udemy”.
- ✳ AWS certification from “Amazon”.

AZURE:

Certification:

- ✳ Microsoft AZURE-beginners guide from “Udemy”.
- ✳ AZURE deploying virtual machine from “Udemy”.
- ✳ Microsoft azure certification from “Microsoft”.

FDP attended by faculty

Name of Faculty	Name of FDP	Venue	Duration
Dr S.P Awasthi	Six Days Faculty Development Program on “ Aricent Arise Tot Mastercoaches ” conducted by Quest Alliance at ACEM Faridabad	ACEM Faridabad	21.09.2019 to 27.09.2019
Ms Sakshi	Six Days Faculty Development Program on “ Aricent Arise Tot Mastercoaches ” conducted by Quest Alliance at ACEM Faridabad	ACEM Faridabad	21.09.2019 to 27.09.2019
Ms Shilpa Dixit	Six Days Faculty Development Program on “ Aricent Arise Tot Mastercoaches ” conducted by Quest Alliance at ACEM Faridabad	ACEM Faridabad	21.09.2019 to 27.09.2019
Ms Hemlata	Six Days Faculty Development Program on “ Aricent Arise Tot Mastercoaches ” conducted by Quest Alliance at ACEM Faridabad	ACEM Faridabad	21.09.2019 to 27.09.2019
Ms Neha Sewal	Six Days Faculty Development Program on “ Aricent Arise Tot Mastercoaches ” conducted by Quest Alliance at ACEM Faridabad	ACEM Faridabad	21.09.2019 to 27.09.2019
Ms Anshu	Six Days Faculty Development Program on “ Aricent Arise Tot Mastercoaches ” conducted by Quest Alliance at ACEM Faridabad	ACEM Faridabad	21.09.2019 to 27.09.2019

Paper Publications

Neha Sewal and Meghna Chaudhary published paper on the topic “The Role Of Technological Sustainability In Agriculture” in International Conference on Environmental Challenges and Solutions” held at MRIIRS, Faridabad, India from 31st January to 2nd February, 2020.

Awards & Achievements



1 st Prize in Hackathon at Zenith'19

(JC Bose University of Science and Technology, YMCA)

Hackathon (Secured 1st Position)
- Manish, Kunal, Aritra

Android development (Secured 1st Position)
Manish Vats(CSE 6-sem)

NFS (Secured 1st Position)
Kunal (CSE 6-sem)
Gaurav sardhan (CSE 6-sem)

Project Presentation (Secured 1st Position)
Aritra, Kunal, Manish Vats

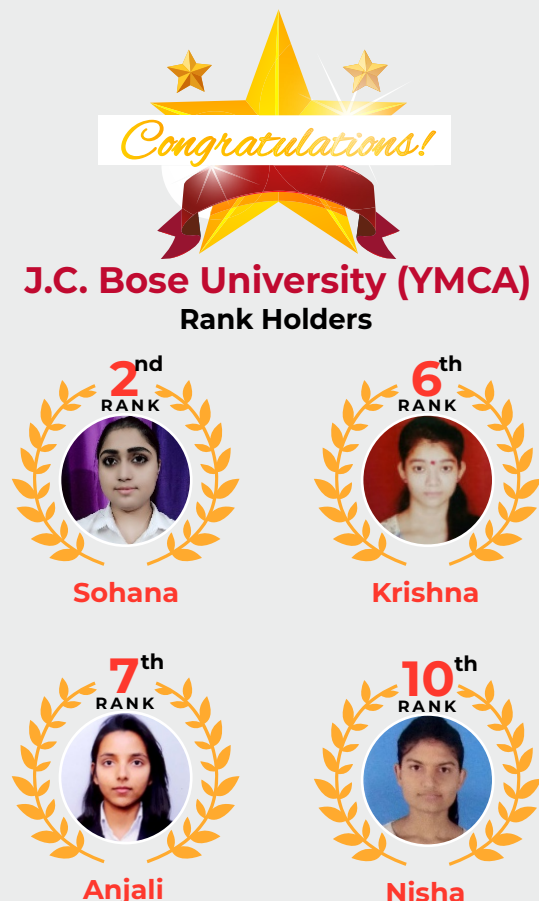
PUBG (Secured 2nd Position)
Aditya, Rupesh, Saurav, Suraj

Counterstrike Go (Secured 1st Position)
Naman(CSE 6-sem)
Aditya(CSE 6-sem)
Saurav(CSE 6-sem)
J.Vilas(CSE 6-sem)
Kunal (CSE 6-sem)
Aman Sharma (CSE 6-sem)
Manish vats(CSE 6-sem)
Gaurav(CSE 6-sem)



1st Prize at APOGEE'19 BITS PILANI

"Heartiest congratulation to project team -Fast Aid"
-Aritra Sinha, Kunal Sharma, Manish Vats



University Rank Holders(JCBUST)

Name	Program	Semester	SGPA
NEHA SHARMA	B.Tech. (CSE)	2	9.077
POOJA	B.Tech. (CSE)	2	8.974
LAKSHAY WADHWA	B.Tech. (CSE)	2	8.872
SOHANA TARAFDER	B.Tech. (CSE)	4	8.864
KRISHNA	B.Tech. (CSE)	4	8.682
ANJALI	B.Tech. (CSE)	4	8.636
NISHA	B.Tech. (CSE)	4	8.545

List of Rank Holders(MDU) (2019-2020) (SEM 5)

Name	Rank in University	Percentage	Branch
MUSKAN GUPTA	7th	84.69 %	B.Tech. (CSE)
VIKAS UPADHYAY	17th	83 %	B.Tech. (CSE)
SHUBHAM MISHRA	24th	82.26 %	B.Tech. (CSE)
DIPTY SINGH	29th	81.74 %	B.Tech. (CSE)
ARITRA SINHA	34th	81 %	B.Tech. (CSE)

List of Rank Holders(MDU) (2019-2020) (SEM 6)

Name	Rank in University	Percentage	Branch
SHUBHAM MISHRA	14th	83.74 %	B.Tech. (CSE)
MUSKAN GUPTA	17th	83.39 %	B.Tech. (CSE)
VIKAS UPADHYAY	20th	83 %	B.Tech. (CSE)
DIPTY SINGH	22nd	83 %	B.Tech. (CSE)
MAMTA SINGH	28th	82.09 %	B.Tech. (CSE)
ARITRA SINHA	29th	82 %	B.Tech. (CSE)

List of Student's Achievements

1. [Shubham Bera](#) attended two days workshop on “[Instructional Mathematical Modeling and Simulation](#)” on January 28 & 29,2020 organised by Department of Mathematics, JCBUST,YMCA ,Faridabad
2. [Rahul Bera](#) attended two days workshop on “[Instructional Mathematical Modeling and Simulation](#)” on January 28 & 29,2020 organised by Department of Mathematics,JCBUST,YMCA ,Faridabad
3. [Satyam](#) attended two days workshop on “[Ethical Hacking with Security Fundamentals](#)” on August 10 & 11,2019 conducted by Kyrion Technologies Pvt. Ltd. at Delhi Technological University,Delhi
4. [Sagar](#)(CSE 6 Semester) got selected for the position of technician in [ITR](#) Chandipur Balasore Odisha(DRDO).
5. [Rahul Thakur](#) participated in Kabaddi in National Level Inter-Engineering Sports Meet “[SUMMIT'18](#)” held at MIT-WPU, Pune from 4th to 8th September 2018.
6. [Rahul Thakur](#) attended one day workshop on “Actions On Google” on May 3,2019 organised by ACEM ,Faridabad.
7. [Gaurav Bairwa](#) participated in Bhangra competition held at [DCTM](#) ,Faridabad.
8. [Kapil](#) participated in dramatics held at [NIIT](#) Kurukshetra.

Seminars

Date	Company	Topic
6th March 2020	Network Bulls	Network Bulls
27th Feb 2019	Innolabz	Live Internship with new start-ups
6th Feb 2019	Training Basket Pvt. Ltd	CISCO Networking workshop
01st Feb 2019	Samatrix Consulting Pvt. Ltd.	Artificial Intelligence
31st January 2019	MADE EASY Education Pvt. Ltd.	How to crack Civil Services Exam, Engineering Services Exam, GATE & PSUs
30th January 2019	NSDC	Career Counselling Towards a bright future
24th January 2019	EduGrad	Data Analytics

Class Room Projects

Real Time Traffic Monitoring System

Real-time systems in case of traffic managing system takes the input of the current situation through video surveillance or wireless sensor network(WSN) and deals with the situation.

Game: Picture Puzzle

Picture Puzzle is a game where a picture is broken into different pieces and all these pieces are scattered all over the screen. The objective in the game is to arrange these scattered pieces in correct order using the mouse.

AWS (Amazon Web Services) Automation

AWS Systems Manager Automation simplifies common maintenance and deployment tasks of Amazon EC2 instances and other AWS resources.

Automation enables to perform the following:

- Build Automation work flows to configure and manage instances and AWS resources.
- Create custom work flows or use pre-defined work flows maintained by AWS.
- Receive notifications about automation tasks and work flows by using Amazon Cloud Watch Events.
- Monitor automation progress and execution details by using the Amazon EC2 or the AWS Systems Manager console.

Learn through Augmented Reality

Augmented Reality (AR) is an interactive experience of a real-world environment where the objects that

reside in the real world are enhanced by computer-generated perceptual information, sometimes across multiple sensory modalities, including visual, auditory, haptic, somatosensory and olfactory. Augmented Reality is used to enhance natural environment or situation and offers perceptually enriched experience. The project basically provides learning environment through Augmented Learning rather than traditional approach of learning.

Facial Recognition Attendance System

An automated system for human face recognition in a real time background for a college to mark the attendance of their students. The data sets are already being taken. The matched face is used to mark attendance of the student. The system maintains the attendance records of students automatically.

Multi-face Recognition System

Human face detection and recognition play important roles in many applications such as video surveillance and face image database management.

In this project work has been done on both face recognition and detection techniques. In face recognition the algorithm is used to recognize an unknown test image by comparing it with the known training images stored in the database as well it gives information regarding the person recognized.



Printer Application

Motive of this project is to make a user friendly web based interface using C# which allows users to login into their account and take out 100 print pages per month according to their requirement.

Spam Classifier

The project is aimed a building an spam filtering system for the college, that can be used across all the departments solving their spam related hassles and reducing clutter in their mail in-boxes in an efficient and satisfactory way. Many data mining techniques are used on the dataset of spam in an attempt to search the most suitable classifier to email classification as spam and non-spam.

Alexa EDevice Using Raspberry PI

Motive of this project is to make a fully functional personal assistant Alexa by using Raspberry Pi which

teaches it new responses and makes it aware of social knowledge. It adopts the vocabulary and personal speech patterns. Alexa can also control several smart devices using itself as a home automation system.

Text Summarizer

The objective of automatic text summarization (automatic summarization/text summarization) is the reduction of a given text to a smaller number of sentences without leaving out the main ideas of the original text. The architecture of a summarization system consists of interpretation, transformation and generation.

Out of the Class Room Projects

Projects performed by CSE 4th year student (Ms Mamta) with QuyTechnologies.

1. Extraction of text from Images

- By using OCR (Optical Character Recognition)
- By making contour model.

2. Created Dataset for “Futuristic” project.

Fields : skills, profession, age, gender, manner, subscriber, reviews, feedback, presentation skills.

CSE final year student Rohit is presently doing Internship for six months in DGTL mart as Web Developer under Project name Pathshala

Pathshala is an online platform to connect students of class K-12 with the tutors. Also, the tutors can be freelancers, homemakers, part-timers, professional coaching Centres etc. who are looking for more work.

CSE final year student Shubham Mishra is presently working with Edugrad

where he has prepared a machine learning course on “Classification in machine learning” which is going to be launched soon. The task included, creating course ppt. first, preparing the script for explanation, recording course videos and finally working on the projects included in course. Course Content:

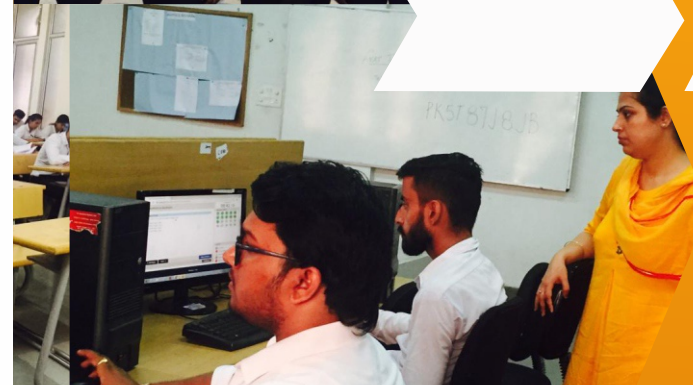
Introduction
Types of classification
Logistic regression (Titanic survival Prediction)
KNN classification (Iris Flower Classification)

Made a Video tutorial series on youtube named “Master Python programming”, which focuses on basics of python. The videos are live on youtube at following link:

https://www.youtube.com/channel/UCxahWKnaXq_n-FUaOI_vaBg/videos

Workshop and Seminars

- EduGrad Test & Counseling Session.
- Career Counseling session by TCS for the students.
- Awareness program for Engineering Students on how to crack Civil Services Exam, Engineering Services Exam, GATE & PSUs by MADE EASY Education Pvt. Ltd.
- Seminar by Samatrix Consulting Pvt. Ltd. on artificial intelligence.
- CISCO Networking workshop by Training Basket Pvt. Ltd.
- Industrial visit to Barclays.
- Visit to learning & skill expo.



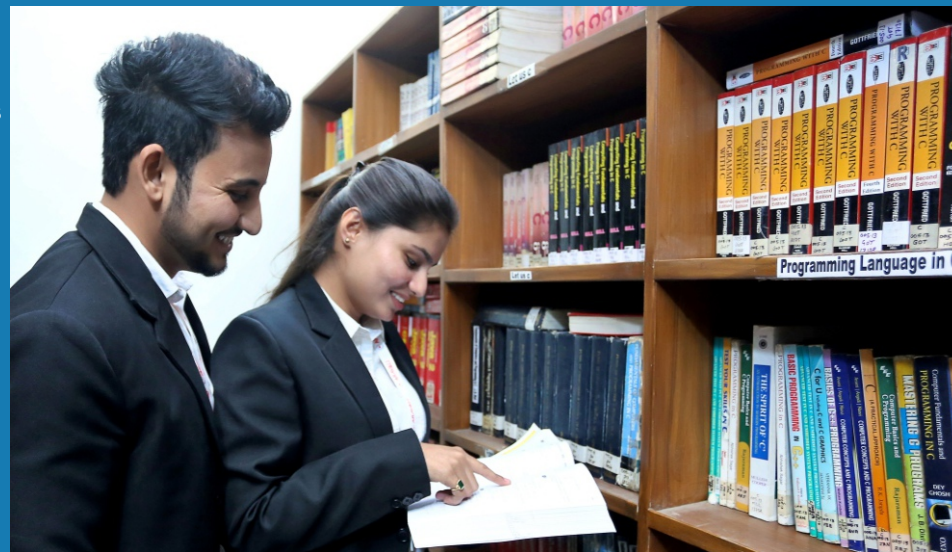
Infrastructure

The college is spread over an area of 10 acres in the interiors of Greater Faridabad, covering all amenities and resources to generate a conducive learning environment. The college infrastructure includes spacious campus building, state of the art classrooms, laboratories and other amenities that help in enhancing the students academic learning and education as a whole. The campus has a cafeteria that serves nutritious food. It also has a medical room providing treatment in case of any emergency and maintains liaison with the doctors of the local hospital. The entire campus and hostel is wi-fi enabled and has round the clock security arrangements with CCTV and trained guards monitoring the area.

Library

Aravali College of Engineering & Management has one of the largest library in the region with more than 20,000 books and thousands of National and International journals. Students and Faculty have free access to the library where they can study various titles for any particular topic. The library is also a hub for all college research oriented activities.

- Fully air conditioned library
- More than 20,000 books
- National /International online journal
- Vast collection of e-books and online catalogue



TECHNICAL SOCIETY

More About the Department

“Educating the mind without educating the heart is no education at all.”

- Aristotle

These clubs are managed by many techno enthusiasts.

- **ACEM Coding Geek.**
- **ACEM Game Development.**
- **ACEM Web Development.**
- **ACEM Artificial Intelligence Club**
- **ACEM DBMS Club**
- **ACEM Hacking Club**

ACEM Coding Geek is a club in which student volunteers teach trending languages such as python to make them ready for various competitions held at different universities. The club also organises workshop sessions for trending languages as per industry standards for providing in depth knowledge to the students.

ACEM Game Development Club makes the students learn about the game development process by creating live projects. Many techno enthusiasts have created games like “snake & ladder”. The students are also provided with the knowledge of game development tool like “Maya software” in addition to the game development Language-C#.

The society aims at providing exposure to latest technologies to the students of ACEM. The institute feels that everyone is blessed with creativity and innovation which is required to be expressed.

The society also focuses on developing solutions which are complete in nature (software/hardware). CSE technical society is a society dedicated to techno enthusiast.

There are 6 technical clubs in the department to motivate the students and to provide a platform for research and innovation. These clubs are chaired by esteemed faculty members of the department and the student president. Each club represents highly enthusiastic, motivated students to spread knowledge through various innovative activities. These clubs organize many technical events on a regular basis.

Laboratory facilities



ACEM has a fully air-conditioned computer centre with the latest computer systems, work stations, multimedia and internet facilities. It is used as a central facility for computer practice and project work for the students of all the departments. The ACEM campus is completely Wi-Fi enabled for the convenience of the students .

ACEM Web Development aims at providing the knowledge to students about activities such as website creation, frontend designing etc by providing the understanding of html, CSS, bootstrap, JavaScript, jQuery. Students at Aravali are given live projects to work on for better understanding of web development such as “ARAVALI PATRIKA”. The students are also provided with the knowledge of database connectivity.

The Artificial Intelligence club aims at delivering knowledge about various machine learning algorithms by providing hands on practice

to popular machine learning techniques such as regression commonly used for data analytics. Besides this the students have also developed projects in this field such as speech to text conversion, face recognition and vehicle detection system etc.

The “HACKING” club gives real life exposure to the hacking process making students understand about each process involved in detail.

The techno enthusiast conducted many workshops for better understanding of the students.

Students' Initiative



Group discussion on-“ARE WE READY FOR ARTIFICIAL INTELLIGENCE?”

Student coordinators-Satish and Rahul- CSE 2nd year

Group discussion on the topic-“Are we ready for Artificial intelligence?” held on 9th October 2019 for the students of all departments to explore and discover knowledge through interaction with group and to improve listening skills and build confidence in speaking. Evaluation was done on the basis of communication skills, knowledge, leadership skills, listening skills, and conceptualizing ability.

Project Presentation

The main aim of project presentation is to motivate the students to develop more technical projects and also get feedback for further improvement and better understanding. Some of the projects undertaken are -Drone by ECE students, Water Reservoir by Mechanical students, Google Talk and Face Recognition by CSE students.

Web Designing

Student coordinator- Rahul Bera

The event was held on 11th September 2019 for CSE students. The students in a group of 2 created website of their own choice in a time of about 2 hours. The website was then judged on the basis of layout, user interface and other visual imaginary things.

Coding Geeks Student coordinators-Ajay & Mohit. The event was held on 25th September 2019 where in coding geeks of CSE 2nd, 3rd and 4th year participated.



Alumni Working Club

An alumni association is an association of graduates or, more broadly, of former students(alumni). The **ARAVALI** alumni committee works as a team to connect and unite our esteemed alumni network, which constitutes a huge body of immensely talented Aravali graduates. The ARAVALI Alumni Committee is a team that connects every individual who has been nurtured by this great institution. CONNECT, NETWORK and BOND – keeping this motto in mind, the department seamlessly connects the institute and students, thereby adding to the ever-growing alumni base and organizes various alumni meets, annual meets and reunion every year to ensure alumni reconnect with their fellow batch mates, faculty and current staff. The convocation event is also coordinated by the department to facilitate the defining moment in every student’s life, giving his/her self-esteem a boost.



Alumni Speaks



My time in college has enriched my life in many ways. It has provided me with the necessary tools to enhance my skills, gave me valuable knowledge about this diverse world and people and concepts in general and eventually enabled me to become successful in life when I finally graduate and get my degree. All these aspects of college has also made me an all-rounder. Currently, I am working with IGT Solutions (formerly InterGlobe Technologies) as Software Engineer from last 1.8 year.

Yukti , Software Engineer (IGT Solutions)



College faculties are very helpful, motivating and responsible. Bus facility is very good. Bus comes in time and also to the nearest bus stops available for anyone. Having industrial visits was very knowledgeable and a plus point for us to know about the industries.

**Ananya Singh, Salesforce Developer
(360 Degree Cloud Technologies)**

"It was a nice experience in Aravali College. College life is the best part of anyone's life. This college not only shaped my personality but also my thoughts and vision. I had no idea what I would become or do when I stepped in this college .Today I have a successful career and I'm working as a Software Developer in a growing organization. College makes us capable enough to grab any opportunities that comes our way".

Himani Goel, Salesforce Developer (360 Degree Cloud Technologies)



From the beginning of college, we were given some responsibilities which helped me strengthen my leadership quality. Encouragement in co-curricular activities and in academics enhanced my overall personality.

**Vaibhav Kapoor, Business Development Executive
(Damco Solution Pvt. Ltd).**



Aravali College of Engineering & Management has taught me fundamental things - the learning never ends. Teachers are very supportive and motivated. In this college you can find that they focus on the job oriented things i.e aptitude, personality development class. The college management is also concerned about the security of girls. Now I am working in Capgemini as an analyst.

Neha Jha, Analyst (Capgemini)



When I entered the college for the first time I was a shy kind of student, and not able to talk in a group, but special personality development classes groomed me in a right manner to overcome my fears. Thanks Aravali.

**Ankit Aggrawal, SEO Developer
CareerGuide.com (Catalog Educational Services Pvt. Ltd.)**

Top college in Delhi-NCR in terms of quality of education, experienced faculty, expert mentors. Best part about Aravali is that they have not only given me quality education but have also helped me to build my overall personality. I want to appreciate PDP (personality development program) classes which helped me a lot to understand my strength and weakness. The extra-curricular activities under PDP cell has made me confident to face any real life challenges. All thanks to Manu Ma'am, Shilpa Ma'am, Sanjay sir who are responsible for making me who I am right now.

Ashish Nayak, Business Executive (Smart School Education Pvt. Ltd.)



"One of the best colleges for B.Tech in Delhi NCR, pursuing B.Tech Computer Science from Aravali taught me a lot."College has all the necessary infrastructure, facilities & equipment too. We did not have any problem regarding infrastructure & any other thing. College is well maintained. Teachers are very helpful and supportive. From placement point of view Aravali college is one of the best among all the colleges in Delhi NCR .Their main aim is that everyone gets placed. Fee structure is good & there is value for money as compared to other colleges.Yearly scholarship is also provided to meritorious students and rank holder in University exams. Campus life is great, security is round the clock, here students can engage in different activities like annual fest, seminars, sports day etc which are conducted annually for all round development of students.



**Akshun K C
Jr. Android App Developer
(Roboslog Pvt. Ltd.)**

Recent Placement

Batch 2016-20

Placed With



Aritra Sinha



Karan Pratap



Shubham Mishra



Aman Sharma



Ayushi Raghav



Dipty Singh



Raja Sah



Pankaj Kumar



Vani Chaudhary



Vikas Upadhyay



Geetika Sachdev



Manish Kumar



Gaurav Sathana



Himanshu Taliyan



Deepak Saini

Placed With



Placed With **QUYTECH**



Aritra Sinha



Karan Pratap



Dipty Singh



Pooja Negi



Kunal Sharma



Mamta Singh



Tejas Keshwani



Naman Bhandari



Muskan Gupta



Kuldeep



Dipty Singh

Placed With



Muskan Gupta

Placed With



Pooja Negi



Kunal Sharma



Mukul Kumar



Vik Kumar



Sourabh Chaprana



Vani Chaudhary

Placed With





➤ Vinay Kumar



➤ Akash Aggarwal



➤ Shippu Yadav



➤ Krishna Arma

Placed With



ANR Software Pvt. Ltd.

Placed With



Gits India Solutions Pvt. Ltd.



➤ Sachin Kaushik



➤ Sachin Singh



➤ Aleena Armes



➤ Amit Kumar

Placed With



AICRA

Placed With



Foetron Cloud Academy

Placed With



Global It Edge Pvt. Ltd.

Placed With



KOYO Electronics India Pvt. Ltd.

Industrial Visits

SR.NO	DATE OF VISIT	LOCATION	COMPANY
1	3rd - 5th Feb 2019	Pragati Maidan	Visit to Learning & Skill Expo
2	13th March 2019	Sec 62, Noida	Barclay's Corporate Office
3	15th March 2019	Sec 62, Noida	Barclay's Corporate Office
4	16th March 2019	Sec 62, Noida	Barclay's Corporate Office
5	6th March 2020	Gurgaon	Network Bulls

Placement Adviser and Coordinator

Initiatives taken under the charter of Training & Placement cell:

- Employability check for final year students
- Industry Readiness Training for 2nd & 3rd year students of B.Tech.
- Membership of internshala
- Membership of CII
- Collaboration with Barclays for the training & placement of the students
- Regular participation in various events organised by BITS and IIT's
- Entrepreneurship development
- Online aptitude test preparation for students
- Live projects with Edugrad and Innolabz
- Seminars & industry visits

Training and Placement Officer
Devendra Kumar

CSE Department Placement Coordinator
Ms. Shilpa Malik

HOW IT WORKS?

Corporate Mentoring

ACEM holds professional engineering lecture sessions via industry members. These insightful lectures offer students peek into a real - life engineering industry and what is expected of them.

Industry Internships

The students learn in real-world environment through organized industry internships that allow them to understand the practical application of the engineering education. These internships are a great way to network in the chosen field that eventually reflects on the resume during final placements.

Pre-placement Sessions

To be successful, there is a need to know the audience. With these sessions, students get to know what skills are important to get placed in their dream company.

Our Recruiters



Placement 2019-20



Anshita Verma
Placed in
Multigraphics Group



Krishna Sharma
Placed in
Dean Infotech Pvt Ltd



Geetika Sachdeva
Placed in
Mobiloitte



Aleena James
Placed in
Global It Edge Pvt, Ltd

& many more...

Student Name

Sourabh Chaprana
Akash Aggarwal
Aman Sharma
Anshita Verma
Aritra Sinha
Ayushi Raghav
Dipty Singh
Karan Pratap Singh
Kunal Sharma
Mamta Singh
Mukul Kumar
Muskan Gupta
Naman Bhandari
Pankaj Kumar Dhiman
Pooja Negi
Raja Sah
Ravinder Kumar
Tejas Keswani
Vani Chaudhary
Vikas Upadhyay
Vinay
Vivek Kumar Jha
Geetika Sachdeva
Kuldeep Tanwar
Manish Kumar Vats
Gaurav Sardhana
Himanshu Taliyan
Aritra Sinha
Dipty Singh
Karan Pratap Singh
Kunal Sharma

Company Name

Multigraphics Group
ANR Software Pvt Ltd
Mobiloitte
Multigraphics Group
Quy Technologies Pvt Ltd
Mobiloitte
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ANR Software Pvt Ltd
Multigraphics Group
Mobiloitte
Quy Technologies Pvt Ltd
Mobiloitte
Mobiloitte
Mobiloitte
ACEZD Consultancy Services
Mobiloitte
TCS
Multigraphics Group

Student Name

Muskan Gupta
Naman Bhandari
Naman Bhandari
Pooja Negi
Vani Chaudhary
Amit Kumar
Abhijeet Kumar Sinha
Amit Anand
Naval Kishore
Rohit Arya
Vikash Sharma
Krishna Verma
Shippu Yadav
Aditya Verma
Neeraj Kumar
Sachin Singh
Aleena James
Surjeet Singh Rawat
Deepak Saini
Sachin Kaushik
Anu Sharma
Ayush Saxena
Aman Sharma
Ritika
Tushar Gautam
Km Krishna
Goumti
Ayush Garg
Rahul
Shashank Shekhar

Company Name

ANRI Solutions HR Services
ANR Software Pvt Ltd
ANR Software Pvt Ltd
Multigraphics Group
Mobiloitte
Koyo Electronics India Pvt Ltd
K V Computer Home Pvt Ltd
IndoHealth Software Pvt Ltd
JSR Tutorial as Web developer Intern
FDRA LABS INDIA PVT. LTD.
Vigro Information & Technology Pvt Ltd
Gits India Solution Pvt Ltd
Gits India Solution Pvt Ltd
Catalog Educational Services Pvt. Ltd.
UE Developers, New Delhi
Foetron , Gurgaon
Global It Edge Pvt, Ltd
Global It Edge Pvt, Ltd
Mobiloitte
AIC for Robotics & Automations
Mobiloitte
Mobiloitte
360 Degree Cloud Solutions Pvt Ltd
NS Matrix Services Pvt Ltd
NS Matrix Services Pvt Ltd
Dean Infotech Pvt Ltd
Dean Infotech Pvt Ltd
Dean Infotech Pvt Ltd
Dean Infotech Pvt Ltd



Pride of Indian Education Awards for Outstanding Placement Record

in Delhi/NCR
In the presence of
Ms. Mandira Bedi



Prime Time Global Icon Awards for Education Excellence (Engineering and Management Studies) for the year 2019 in NCR.



Excellence in Student Placement Award

from **Dr. Manish Kumar**, CEO,
National Accreditation Board for Education
and Training at Higher Education
Summit, New Delhi.





SCHOLARSHIPS

A high-quality education is a significant and important investment for future. To make this incredible opportunity more affordable, we offer various scholarships.

Aravali Scholarship Test (AST)

To provide an opportunity to bright inquisitive young minds from across the country to study in most challenging and diverse academic environment, Aravali College of Engineering & Management conducts an entrance test for admission to various courses. AST is aimed at rewarding the brilliance and potential of young aspirants to win scholarships and study in courses of their choice.

Institute Level Scholarship

% of Marks	Scholarship
86% Above	100 % of Tuition Fee
81-85.99%	70 % of Tuition Fee
75-80.99%	50 % of Tuition Fee
70-74.99%	20 % of Tuition Fee

HOW TO REGISTER?

Log on to - www.acem.edu.in

Please Note - Scholarship is not applicable to reserved category.

SUPER ACHIEVER SCHOLARSHIPS

Scholarship based on All India rank in JEE Mains

All India Rank (AIR)	Scholarship
Less than 50000	100% of Tuition Fee
50001 to 75000	75% of Tuition Fee
75001 to 100000	20% of Tuition Fee
100001 to 125000	10% of Tuition Fee

Note - 5% of Total Seats will be offered under the above scheme

Scholarship based on marks in 10+2

% of Marks	MALE	FEMALE
90% Above	100%	100%
86-90%	50%	70%
81-85.99%	30%	50%
75-80.99%	20%	25%
70-74.99%		10%

Note:

- Scholarships given on tuition fee
- Terms and conditions apply

How To Apply

S. No.	Name of the Programme	Duration	FEES (Per Annum)	Minimum Eligibility Criteria	Criteria for Selection
1.	Computer Science and Engineering (CSE)	4 Yrs	95,000	Passed 10+2 examination with at least 45% marks in aggregate in 5 subjects. Eligibility is on the basis of percentage of aggregate marks in Physics, Chemistry(or any equivalent subject) & Mathematics.	Short listing of candidates on the basis of score in JEE Mains 2020 / SAT/ AST 2020 / XII Qualifying Examination.
2.	Bachelors of Computer Application (BCA)	3 Yrs	60,000	Passed 10+2 Examination / Equivalent Examination with at least 45% marks in aggregate in 5 subjects including English as compulsory subject along with 4 subjects with the highest score out of the remaining subjects	Merit preparation / short listing of candidates on the basis of score in AST 2020/ Marks in Qualifying Examination

University Charges of 8,500 INR (Per Annum) applicable separately for all courses

Hostel : AC Room Rs 75,000 INR (Per Annum)
Non AC Room RS 65,000 INR (Per Annum)

Life At Aravali

