SCHOOL OF ENGINEERING AND TECHNOLOGY (SOET)

PROGRAMS OFFERED

Under Graduate

- B.Tech (CSE)
- B.Tech. (EEE)
- B.Tech. (ECE)
- B.Tech. (Civil Engineering)
- B.Tech. (CSE) in AI & ML with **Samatrix and IBM**
- B.Tech. in ME (Automative Designs) with **Siemens**
- BCA in AI & Data Science with **Samatrix and IBM**
- B.Sc. (Hons.) Computer Science with **IBM**
- B.Sc. (Hons.) Cyber Security
- B.Sc. (Hons.) Data Science

Post Graduate

- M.Tech.
- M.Tech (Part Time)
- MCA

Doctorate of Philosophy

Industry/International Collaboration @KRMU

SIEMENS IBM

UNIVERSITY of HOUSTON Middlesex University London 南華大学 Nanhua University medanta THE MEDICITY KPMG SYSTIQUE HUGHES

University of BRISTOL DABUR RESEARCH FOUNDATION Samatrix.io NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE CARDIFF UNIVERSITY UltraTech CEMENT BOSCH

ABOUT | K.R. MANGALAM
U N I V E R S I T Y

"Empowering the Youth, Empowering the Nation"

K.R. Mangalam University is fast emerging as one of the top private universities in India. KRMU's lush green campus, world class infrastructure and innovative and inclusive learning environment provide a unique value proposition in the Indian higher education space.

Our goal at KRMU is to create a safe ecosystem where students' lives can be transformed through knowledge generation and sharing, entrepreneurship and creativity. Our qualified and experienced faculties from some of the best institutions in the world can help students achieve their full potential and become professionally and socially responsible individuals.

Students at KRMU are exposed to wide variety of academic disciplines and have opportunities to take their classroom knowledge into the real world through various activities like industry visit, internships, guest lectures, workshops, social services, and medical camps. Smart Ashram, Engineering Kitchen, Nucleus, E-Yantra Robotics Lab in collaboration with IIT Bombay are few of the many initiatives that allow students to work on live projects.

KRMU is a technologically advanced university and we have launched a pioneering, technology-based, Hybrid Educational Platform, which can robustly enable online and distance education. Our teams continue working together remotely, within the online space, and we are here to support all queries regarding our university and admissions as always. K.R. Mangalam University is fully prepared to serve the needs of our students with vigour, inspiration, and practical knowledge.

MESSAGE

THE SCHOOL

The School of Engineering and Technology is well established department and is equipped with all latest equipment and machines.The aim of our team is to provide both knowledge and performance and create an environment where knowledge complements performance and vice versa. K.R. Mangalam University has been able to mark its presence in the National Capital Region of the country as a value-based university, which is successfully imparting quality education in all domains.

We aim at creating niche of innovation, entrepreneurship and creativity. We have team of qualified and efficient faculty members who are continuously working to provide project-based learning and best of industry exposure to our students. Industry visits, Guest lectures, Seminars are regularly organized for the students to provide interaction with the industry experts. The University has always established a strong industry-institute relationship.

Our curriculum focuses on problem solving, design, development and application of various emerging technologies. SOET is aiming at transforming the students into a very competitive engineer with adequate analytical skills so as to make them more acceptable to potential employers in the country.

KRMU EDGE

- Beautiful, lush **green campus** located on **Sohna Road, Gurugram**
- **Outcome based education** system
- **Inter-disciplinary project based learning**
- Broad range of **minor options** along with major fields of study – from Physiotherapy to Photography
- Tinkering lab for fueling **innovation**
- Qualified **faculty members** with international experience
- **Internship and placement** opportunities at leading industries and corporates
- **International exposure** through summer school programs and semester programs
- **Industry-Institute integration** through projects, industrial visits, masterclass etc.
- **Scholarships** on merit, means and sports excellence **up to 100%**
- **Vibrant campus life** with state-of-the-art sports, gym, hostel and other facilities
- **State-of-the-art** lecture theatres, laboratories and studios
- Highly **subsidized transport facility** from most of the places in Delhi NCR
- Mandatory '**community service**' to provide real-world experience and instill important habits like leadership, problem-solving, and time-management
- **Mangalam Achiever Score (MAS)** for holistic growth of students
- Courses offered in collaboration with leading industries like IBM, Dabur, Siemens etc. in co-designed, co-delivered and co-certified mode

WHY STUDY AT SOET?

The School of Engineering & Technology at K.R. Mangalam University offers various undergraduate and postgraduate programs. The aim of these programs is to equip the students with knowledge, skills and provide professional approach in the field of Engineering and Technology, to make their capable in successfully meeting the present requirements and future challenges in the Engineering Profession. SOET brings together outstanding academicians, industry professionals and experienced researchers to impart hands-on and multi-disciplinary learning experience. Here are the reasons that makes us stand out in the areas of Engineering in India:

- Industry Based Curriculum
- Inter-Disciplinary Courses
- Live Projects
- Value Added Courses
- State-of-the art Labs
- Industry Collaborations
- Internships and Placements at leading MNCs and PCUs.
- Special training/guidance for GATE

CAREER AVENUES:

The world is his endless opportunities for skilled youth that can implement their knowledge in real-life applications. Especially in India, after B.Tech, engineers can be used in almost all walks of life. This is because they are skilled in the art of logic. Therefore, engineering is, and continues to be, one of the most popular courses. As a fresh graduate,there are many career options after engineering.

CSE: There are opportunities in the field of IT Consulting, Solution Development, Design Engineering, Network Administration, IT Industry, Hardware and Software Domains, PSUs, Defense & Civil Services.

CSE with specialization in AI & ML: Machine Learning Engineer, Big Data & AI Architect, Big Data Scientist, Research Engineer - Artificial Intelligence, Robotics Professional, Leading recruiters are Google, amazon, Facebook, e-commerce companies and FMGC companies.

ME: General industries Automobile, Aerospace, Power Sector, Railways, and all major auto manufacturers Defense and Civil Services, PSUs.

ECE: TelecomIndustry; Hardware Designing; Fabrication Industry;Researchand Development Laboratories; Embedded Systems; informatics; Defense& Civil Services, Academics, Aviation Industry, PSUs, Defense & Civil Services, etc.

EEE: Power generation,Transmissionand Distribution; Design and Development, Manufacturing, Automation, Production and Maintenance, Operation and Control of anyequipment or product which works on electricity, Instrumentation Engineering, Research and Development organizations.

CE: AII the major Infrastructure Developers; Railways, Govt. Departments, Environmental Agencies/ Industry, Defense & Civil Services, etc.

BCA & MCA: IT Sector requiring Application Developments, Software Testing and Maintenances, Academics, Defense & Civil Services.

B.Sc. (H) (Computer Science): System integrator, Hardware Designer, Logic Designer, Systems Analyst, System Administrator, Computer programmer, Computer Scientist. Students pursuing this course has the option of going to Middlesex University, London under the articulation agreement. First year credits will be transferred and students will do last two years in international university and get their degree.

B.Sc.(H) (Data Sciences): Systems Security, Information Security Management, forensic Science, Cyber Security, Ethical Hacking.

B.Sc.(H) (Cyber Security): Systems Security, Information Security Management, forensic Science, Cyber Security, Ethical Hacking.

COURSE STRUCTURE

The curriculum is designed to cater to industry needs and provide the students with skills for employmen tand positive work values needed to meet the demands of the changing industry and global environment.

B. TECH COURSE STRUCTURE

Semester –I

★ Applied Mathematics-I
★ Engineering Physics
★ Environmental Studies
★ Programming for Problem Solving
★ Basics of Mechanical Engineering
★ Engineering Physics Lab
★ Programming for Problem Solving Lab
★ Basics of Mechanical Engineering Lab
★ Open Elective-I

Semester –II

★ Applied Mathematics-II
★ Basics of Electrical & Electronics Engineering
★ Engineering Chemistry
★ Communication Skills
★ Engineering Graphics Lab
★ Basics of Electrical & Electronics Engineering Lab
★ Engineering Chemistry Lab
★ Workshop Practices
★ Open Elective-II

BCACOURSE STRUCTURE

Semester –I

★ Management Thoughts and Applications
★ Introductions to Computers & IT, Office Automation
★ Programming for Problem Solving
★ Basics of Mathematics
★ Environmental Studies
★ Introductions to Computers & IT, Office Automation Lab
★ Programming for Problem Solving Lab
★ Open Elective-I

Semester –II

★ Communications Skills
★ Object Oriented Programming
★ Web Technologies
★ Differential Equations & Optimization Techniques
★ Web Technologies Lab
★ Object Oriented Programming Lab
★ Open Elective -II

B.Sc. (H) Computer Science

Semester –I

★ Web TechnologiesMechanics
★ Communication Skills
★ Programming for Problem Solving
★ Programming for Problem Solving Lab
★ Web Technologies Lab
★ Open Elective-I

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Semester –II

★ Electricity and Magnetism
★ Environmental Studies
★ Database Management Systems
★ Object Oriented Programming
★ Database Management Systems Lab
★ Object Oriented Programming Lab
★ Open Elective -II

B.Sc. (H) Data Science

Semester –I

- ★ Web Technologies   Mechanics
- ★ Communication Skills
- ★ Programming for Problem Solving
- ★ Programming for Problem Solving Lab
- ★ Web Technologies Lab
- ★ Open Elective-I

Semester –II

- ★ Ordinary Differential Equations
- ★ Environmental Studies
- ★ Languages of Data Modelling
- ★ Object Oriented Programming
- ★ Languages of Data Modelling Lab
- ★ Object Oriented Programming Lab
- ★ Open Elective -II

B.Sc. (H) Cyber Security

Semester –I

- ★ Web Technologies   Mechanics
- ★ Communication Skills
- ★ Programming for Problem Solving
- ★ Programming for Problem Solving Lab
- ★ Web Technologies Lab
- ★ Open Elective-I

Semester –II

- ★ Electricity and Magnetism
- ★ Environmental Studies
- ★ Cyber Space and the Law
- ★ Object Oriented Programming
- ★ Object Oriented Programming Lab
- ★ Linux Environment Lab
- ★ Open Elective - II

B.Sc. (H) Electronic Science

Semester –I

- ★ Network Theory
- ★ Mathematics Foundation for electronics
- ★ Network Theory Lab
- ★ Mathematics Foundation for Electronics Lab
- ★ Project 1.0
- ★ Generic Elective
- ★ Generic Elective Lab
- ★ Environmental Studies

Semester –II

- ★ Semiconductor Devices
- ★ Semiconductor Devices Lab
- ★ Engineering Physics
- ★ Engineering Physics Lab
- ★ Generic Elective
- ★ Generic Elective Lab
- ★ Communication skills
- ★ Project 2.0

MCA COURSE STRUCTURE

Semester –I

- ★ Problem Solving and Python Programming
- ★ Computer Organization and Assembly Language Programming
- ★ Introduction to Management Functions
- ★ Mathematical Foundations
- ★ Introduction to Database Management Systems
- ★ Introduction to Database Management Systems Lab
- ★ Problem Solving and Python Programming Lab
- ★ C and Assembly Language Programming Lab
- ★ Audit Course – I
- ★ Value Added Course

Semester –II

- ★ Data Structures and Algorithms
- ★ Information Systems Analysis Design & Implementations
- ★ Advanced Data Mining
- ★ Probability and Combinatorics
- ★ System & Network Administration
- ★ Data Structures and Algorithms Lab
- ★ Advanced Data Mining Lab
- ★ System & Network Administration Lab
- ★ Audit Course – II
- ★ Value Added Course

M. Tech. Computer Science & Engineering

Semester –I

- ★ Mathematical Foundations of Computer Science
- ★ Advanced Data Structures
- ★ Research Methodology & IPR
- ★ Departmental Elective – I
- ★ Departmental Elective -II
- ★ Advanced Data Structures Lab
- ★ Audit Course - I

Semester –II

- ★ Advanced Algorithms
- ★ Soft Computing
- ★ Departmental Elective – III
- ★ Departmental Elective – IV
- ★ Human and Computer Interaction
- ★ GPU Computing
- ★ Digital Forensics
- ★ Soft Computing Lab
- ★ Mini Project with Seminar
- ★ Audit Course - II

M. Tech. Automobile Engineering

Semester –I

- ★ Chassis and Body Engineering
- ★ Pneumatic and Hydraulic System
- ★ Automotive Engines and Emissions
- ★ Design of Experiments and Research Methodology
- ★ Gas Dynamics (Elective - I)
- ★ Engine Testing and Pollution Measurement Lab
- ★ Automotive Systems Components Lab
- ★ Seminar - I

Semester –II

- ★ Automobile Air Conditioning
- ★ Advanced Manufacturing Technology
- ★ Advanced Automotive Transmission
- ★ Vehicle Safety and Maintenance Elective -II
- ★ Automobile Air Conditioning Lab
- ★ Automobile CAD Lab with Simulations
- ★ Seminar - II

B. Tech.
Artificial Intelligence & Machine Learning

Semester –I

- ★ Harnessing the Power of Web as a Knowledge Device
- ★ Digital Focus on Language, Literature and Communication
- ★ Digital Film Making
- ★ Programming for Problem Solving
- ★ Fundamentals of Physics for Engineering
- ★ Calculus: Uncovering the Math around us
- ★ Programming for Problem Solving Lab
- ★ Environmental Studies

Semester –II

- ★ Understanding the Power of Data
- ★ Linearity in our World
- ★ Chemistry
- ★ Basics of Electrical & Electronics Engineering
- ★ Basics of Electrical & Electronics Engineering Lab
- ★ Workshop Practices
- ★ Engineering Graphics
- ★ Engineering Chemistry Lab

INTERNSHIPS & PLACEMENTS

Our students are working with reputed organizations in Delhi-NCR. The university ensures 100% placement assistance and provide a platform wherein students can explore wide variety of jobs in teaching and R&D sector.

AIR INDIA sats	wipro
JK SUPER CEMENT BUILD SAFE	UltraTech CEMENT The Engineer's Choice
Tech Mahindra	SPEEDWAYS ELECTRIC
TATA CONSULTANCY SERVICES	genpact

FACULTY PROFILE

Our main strength is in our experienced and professional teaching squad, who are continuously working to turn your raw talent and enthusiasm into the specific skills and knowledge needed to succeed in your chosen career and to meet life's challenges head-on.

DR. VINEET DAHIYA
ASSOCIATE PROFESSOR

Ph.D., (Electrical Engineering)
M.Tech (Electrical Enginering)
B.E (Electrical Engineering)

Experience:12 years teaching experience | Publications: 5 papers published & presented
Specializations: Renewable Energy and Power System

DR. NEERAJ GUPTA
ASSOCIATE PROFESSOR

Ph.D. (Information Technology)
M.Tech (Computer Science Engineering)
B.Tech (Computer Engineering)

Experience: 22 years teaching | Publications: 15 papers published & presented
Specializations: Computer Networks

DR. KAUSHAL KUMAR
ASSOCIATE PROFESSOR

Ph.D. (Mechanical Engineering)
M. Tech. (Mechanical Engineering)
B.Tech (Mechanical Engineering)

Experience: 5 years teaching | Publications:30 papers published & presented
Specializations: Thermal and Manufacturing Engineering, Tribology and Environment

MR. SURENDRA KUMAR YADAV
ASSISTANT PROFESSOR

M. Tech. (Thermal Engineering)
B.Tech (Mechanical Engineering)

Experience: 11+years teaching | Publications:15 papers published & presented
Specializations: Thermal Engineering and Computational Fluid Dynamics

MS. ASHA SOHAL
ASSISTANT PROFESSOR

M. Tech. (Information Technology)
B.Tech (Computer Science Engineering)

Experience: 9 years teaching | Publications: 16 paper published & presented
Specializations: Cloud Computing, Computer Graphics and Fundamentals of IOS development

WHAT STUDENTS ARE SAYING

Hear what our students have to say about their experience at K.R. Mangalam University.

" K. R. Mangalam University has been an excellent contributor in the enhancement of my personality. I have gain leadership, time management and team skills. The project base learning of K.R. Mangalam University is one among the best within the NCR region and what stands out the most. The faculties here make the University what it is. Faculties does not only deliver classroom teachings, but they are the pillars of this University. Being a part of this university is a treasure, I will always cherish "

Aviral, B. Tech (EEE) Semester - VI

" The infrastructure of K.R. Mangalam University is one its strengths. The labs and classrooms are designed to the perfection and campus area is good. During pandemic also our University has continued working without any glitch. Our faculties have provided us online lectures, e-books and practice material and, they have organized many guest lectures and webinars. I am grateful for the tireless efforts of faculty members. "

Vishal Kumar, B. Tech (ME) Semester - VI

" The Industrial Connect/Community Connect projects are very nice. It feels good to work on projects with my classmates, juniors as well as seniors. It's a new kind of experience. I like the emphasis being put on clubs and societies. "

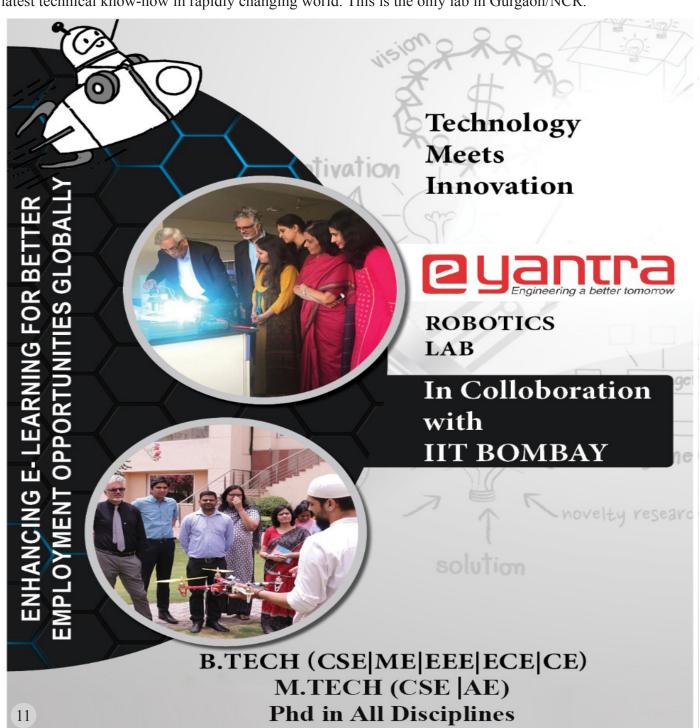**Mohit Chahal, B. Tech CSE, Semester - III**

LABS AT KRMU

The School of Engineering & Technologyhas fully equipped labssupervised by experienced faculty members. There are trained technicians to help the students in performing the experiments. Theselabsprovide hands-on practical training to the students to full fill the requirements of the industry These trainings will enhance the understanding of the students for better employability.

E-Yantra Lab: A new e-Yantra Robotic Lab in collaboration with IIT Bombay, Ministry of Human Resources Development (MHRD), by Government of India has been set up and inaugurated on 30th July 2019 at K.R. Mangalam University, Gurgaon.

Robotics Lab: Creating sustainable ecosystems in which students are made to think, 'play' with the robots, be able to execute projects and enhance their entrepreneur's skills in embedded systems and Robotics.3-D printer, Robotic Six Arm Machine six dof, Automobile Lab etc

IOS (Apple) Lab: The ioS lab was established in year 2014 in collaboration with Apple, India with the sole motto to fulfill the increasing need of technical knowledge among the students and to keep abreast with the latest technical know-how in rapidly changing world. This is the only lab in Gurgaon/NCR.

ENHANCING E- LEARNING FOR BETTER EMPLOYMENT OPPORTUNITIES GLOBALLY

Technology Meets Innovation

eyantra Engineering a better tomorrow

ROBOTICS LAB

In Colloboration with IIT BOMBAY

B.TECH (CSE|ME|EEE|ECE|CE)
M.TECH (CSE |AE)
Phd in All Disciplines

LIFE AT KRMU

Life at KRMU is full of adventure and fun. The students are encouraged to pursue a wide range of extracurricular activities and hobbies in their free time. The university organizes educational, sports and cultural events on regular basis.

Rendezvous, annual inter-university cultural festival witness participation of more than 500 students from all over India in array of cultural activities.

The campus has well established indoor and outdoor sports facilities and encourages students to participate In Sports events Zest, Sportura and Collympics.

ELIGIBILITY & FEE STRUCTURE

ELIGIBILITY

Program	Eligibility
Undergraduate B. Tech (CSE, ECE, EEE, ME, CE) B.Tech (CSE specialization in AI & ML in association with Samatrix)	Candidate should have passed the 10+2 examination conducted by CBSE or equivalent examination from a recognized board in Science Stream with Physics and Mathematics as essential subjects with minimum of 50% marks in aggregate. Diploma holders in engineering may be considered for Lateral Entry into Second year subject to eligibility conditions.
B.Sc (H) (Computer Science, Data Science, Cyber Security)	The Candidate should have passed the 10+2 examination conducted by Central Board of Secondary Education or equivalent examination from a recognized board with Mathematics as one of the subjects with Minimum 50% marks in aggregate.
BCA in association with Samatrix	Candidate should have passed the 10+2 examination conducted by CBSE or equivalent examination from a recognized board with Mathematics/ Computer Science / Information Practice as One of The Subjects with Minimum 50% marks In Aggregate.
Post Graduate M. Tech	The Candidate should have passed a bachelor's degree or Equivalent from a recognized University with minimum 50% marks in aggregate.
MCA	The Candidate should have passed BCA/B.Sc. with Mathematics as a major subject or B.E./ B. Tech in Computer Science / Information Science Information Technology with minimum of 50% marks in aggregate.
Doctor of Philosophy	A postgraduate degree or equivalent in the concerned subject from a recognized Indian University, or a postgraduate degree approved by the Association of Indian Universities/UGC/ AICTEwithnotlessthan55%marksinaggregateor its equivalent grade 'B' in the UGC 7-pointscale.

FEE STRUCTURE (2021 – 2022)

Program	Fee for Semester I (in ₹)	Fee for Semester II (in ₹)	Total Fee per year (in ₹)
Under Graduate (B. Tech (CSE) B.Tech. (EEE) B.Tech. (ECE) B.Tech. (Civil Engineering)	90,000	85,000	1,75,000
B.Tech. in CSE with AI & ML with academic support **Samatrix and IBM**	1,00,000	1,00,000	2,00,000
B.Tech. in ME (Automative Designs) with academic support **Siemens**	90,000	85,000	1,75,000
BCA with specialization in AI & Data Science with academic support **Samatrix and IBM**	70,000	65,000	1,35,000
B.Sc. (Hons.) Computer Science with academic support **IBM** B.Sc. (Hons.) Cyber Security B.Sc. (Hons.) Data Science	53,000	50,000	1,03,000
Post Graduate M.Tech.	50,000	50,000	1,00,000
M.Tech (Part Time)	30,000	30,000	60,000
MCA	50,000	50,000	1,00,000
Ph.D. (All Disciplines)	40,000	40,000	80,000

Note: Fee may increase up to 10% each year.
MODE OF PAYMENT: By Cash/DD/Online Transfer/Credit Card/Debit Card
DD should be made in favour of "K.R. Mangalam University", payable at New Delhi.
Fee can be paid online through www.krmangalam.edu.in.

- 65+ UG and PG Programs
- 400+ National and International Recruiters
- 10+ Awards in Academic, Research and Innovation
- 3000+ Students

ADMISSION COUNSELLING:

We invite you to have a personal interaction with our counsellor in order to know more about K.R. Mangalam University and the Program.

University Campus:

Sohna Road, Gurugram, Delhi-NCR Landline No.: 0124-2867800 Mob: 08800697010-15
Helpline No.: 011-48884888 Email: admissions@krmangalam.edu.in

Bihar Office:

103, 1st Floor, G.V. Mall, Boring Road, Patna- 800001
Mob: 8800697016-17-19, Landline No.: 0612-2540888
Email: bihar@krmangalam.edu.in

Jharkhand Office	:	Mob: 8800697019	Email: jharkhand@krmangalam.edu.in
Himachal Office	:	Mob: 9311256334	Email: himachal@krmangalam.edu.in
J & K Office	:	Mob: 9311256334	Email: jk@krmangalam.edu.in
Punjab Office	:	Mob: 9311256334	Email: punjab@krmangalam.edu.in
West Bengal Office	:	Mob: 9311256335	Email: westbengal@krmangalam.edu.in
North East Office	:	Mob: 9311256335	Email: northeast@krmangalam.edu.in
Uttrakhand Office	:	Mob: 9311256336	Email: uttarakhand@krmangalam.edu.in
Uttar Pradesh Office	:	Mob: 9311256337	Email: uttarpradesh@krmangalam.edu.in

HOW TO APPLY

For application form, eligibility & Program details, visit
www.krmangalam.edu.in or collect a copy from the admission office.

K.R. MANGALAM UNIVERSITY

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facebook.com/krmuniv   twitter.com/krmuniv
E-mail: welcome@krmangalam.edu.in | **website:** www.krmangalam.edu.in