



**K.R. MANGALAM UNIVERSITY**

THE COMPLETE WORLD OF EDUCATION

(Recognized by UGC and a member of AIU)

*Empowering the Youth; Empowering the Nation*

Perfection

Happiness

Integrity



**School of Basic & Applied Sciences**

## The School of Basic & Applied Sciences offers the following programmes:

### UG PROGRAMMES

#### Course Duration: 3 years

**Eligibility Criteria:** He/She should have passed the 10+2 examination conducted by Central Board of Secondary Education or equivalent examination from a recognized board in Science stream with a minimum of 50% marks in aggregate

#### B.Sc. (Hons.) Chemistry

Chemistry occupies central position in Science & Technology, leading & enabling the development of world's future-important technologies. This course aims to impart basic and applied knowledge in various branches of Chemistry with a view to produce good academicians, researchers and professionals in the field.

**Courses in:** Inorganic Chemistry / Organic Chemistry / Physical Chemistry / Analytical Methods in Chemical Analysis / Environmental Chemistry

**Career Options:** Chemical Industry, Pharmacy, Environmental Monitoring, Food Sciences and Forensics, Laboratories related to Research, Nuclear Industry, Polymer Industry & Academic Organizations, PSUs, etc.

#### B.Sc. (Hons.) Mathematics

This course provides a strong technical and basic background in the key mathematical tools necessary for solving problems related to Engineering, Research and other related fields.

**Courses in:** Calculus / Analysis / Algebra / Differential Equations / Mathematical Modeling / Probability and Statistics / Numerical Methods and Programming.

**Career Options:** Business, Statistics, Finance and Academics.

#### B.Sc. (Hons.) Physics

The objective of the programme is to train and equip the students with sound knowledge and analytical skills in Physics and its application to related problems.

**Courses in:** Mathematical Physics / Mechanics / Waves and Oscillations / Optics / Numerical Analysis/ Thermal Physics / Digital Electronics / Microprocessor.

**Career Options:** Industry related to Scientific Instrumentation, Laboratories related to Research and Development, Academic Organizations.

### PG PROGRAMMES

#### Course Duration: 2 Years

**Eligibility Criteria:** He/She should have passed the B.Sc. (Hons.) / B.Sc. with Physics / Mathematics / Chemistry as a major subject, from a recognized University or equivalent with minimum 50% marks in aggregate.

#### M.Sc. (Mathematics)

This programme trains the students in the area of Advanced Mathematics, Mathematical tools and its application to the real time problems in Engineering and other related fields.

**Courses in:** Pure Mathematics / Applied Mathematics / Operation Research / Statistics.

**Career Options:** Opportunities in Academics, Research and other Research related Organizations & Laboratories.

#### M.Sc. (Chemistry)

The Course aims to train the students with latest knowledge of Chemistry in various branches and topics of Chemistry with hands on practical training to produce well trained Chemists, Researchers and Academicians in the field.

**Courses in:** Inorganic / Organic / Physical / Analytical Chemistry and various experimental techniques in related programme / branches of Chemistry with brief knowledge in Mathematical and Computer Applications in Chemistry.

**Career Options:** Opportunities in organizations of Teaching & Research, Water Technology, Forensics, Food Science and other Chemistry related Industries & Organizations.

#### M.Sc. (Physics)

This course has been designed to train the innovative minds in the latest developments in Physics as applicable in the field of modern inventions and discoveries.

**Courses in:** Mathematical Physics / Classical Mechanics / Quantum Mechanics / Electronic Devices / Statistical Mechanics / Electrodynamics and Plasma Physics/ Atomic and Molecular Physics / Condensed Matter / Nuclear and Particle Physics.

**Career Options:** Academics, Industry and Government Research Organizations.

### Ph.D. PROGRAMMES

#### Doctor of Philosophy (Ph.D.)

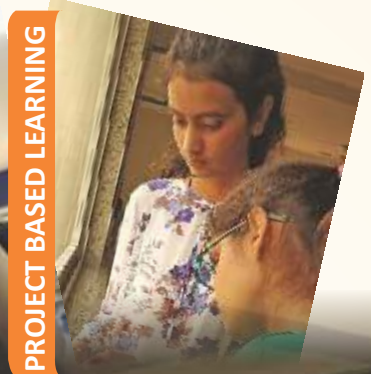
The Ph.D. programme is based on the research carried out by the student under the guidance of Supervisor/Co-Supervisor(s) and the programme duration depends upon the completion of the selected research by the student. The candidate should have a Post Graduate degree or its equivalent from a recognized university, in respective discipline, with minimum 55% marks or minimum CGPA of 5.5 on a 10 point scale.

Admission to Ph.D. programme will be based on the overall performance in Post Graduate degree in respective discipline, Written Entrance Examination, Personal Interview and available resources. Preference will be given to CSIR/ UGC-NET qualified candidates and those having sponsored projects. Candidates with NET, SLET, GATE, MPAT, M.Phil. or equivalent qualification may be exempted from Entrance Examination.

Admitted candidates will have to clear mandatory course work and fulfill other requirements as per UGC guidelines.

For fee structure and other details, visit <http://www.krmangalam.edu.in/phd>

# THE INSTITUTE FOR INVENTIONS, INNOVATIONS AND ENTREPRENEURSHIP (TIIE)



ENGINEERING KITCHEN

The K.R. Mangalam University strives to foster and maintain an environment of creativity with a deep commitment to inculcate excellence in academics and an overall development of personality of the students.

To enable and empower the students to create, innovate and invent, the University announces the launch of:

## The Institute for Inventions, Innovations and Entrepreneurship (TIIE)

New Courses designed under TIIE exhibit a contemporary way of imparting knowledge through a project based pedagogy leading to employability and entrepreneurship.

Students admitted in any stream or course have a chance to opt for the courses under TIIE which are project and research based, enabling the students to enhance their skills.

To facilitate this, we have set up exclusive centres such as:

- Engineering Kitchen
- Robotics Lab set up under the E-Yantra project of IIT , Mumbai
- Smart Ashram
- Active collaboration with National and International Universities
- Set up of New Research Centre “Nucleus”



## FEE STRUCTURE (2020 – 2021)

| Program                                                                  | Fee for Semester I<br>(in ₹) | Fee for Semester II<br>(in ₹) | Total Fee Per Year<br>(in ₹) |
|--------------------------------------------------------------------------|------------------------------|-------------------------------|------------------------------|
| <b>Under Graduate</b><br>B.Sc. (Hons.) Chemistry/<br>Mathematics/Physics | 53,000                       | 50,000                        | 1,03,000                     |
| <b>Post Graduate</b><br>M.Sc. Chemistry/<br>Mathematics/Physics          | 50,000                       | 50,000                        | 1,00,000                     |

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](http://www.krmangalam.edu.in).

### ADMISSION COUNSELLING:

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

#### Admission Office at:

- University Campus: Sohna Road, Gurugram, Delhi-NCR
- N-Block, Greater Kailash-I, New Delhi- 110048
- 103, 1st Floor, G.V. Mall, Boring Road, Patna-800001,  
**Mob:**8800697016-17, **Email:** bihar@krmangalam.edu.in  
**Landline No.:** 0612-2540888

#### Call/Mail at:

**Landline No.:** 0124-2867800

**Mob:** 08800697010-15

**Helpline No.:** 011-48884888

**Email:** admissions@krmangalam.edu.in

### HOW TO APPLY:

For application form, eligibility & programme details, visit [www.krmangalam.edu.in](http://www.krmangalam.edu.in) or collect a copy from the admission office.



**K.R. MANGALAM UNIVERSITY**

**Campus:** Sohna Road, Gurugram, Delhi – NCR, Pin : 122103

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**E-mail:** admissions@krmangalam.edu.in | **website:** [www.krmangalam.edu.in](http://www.krmangalam.edu.in)