



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

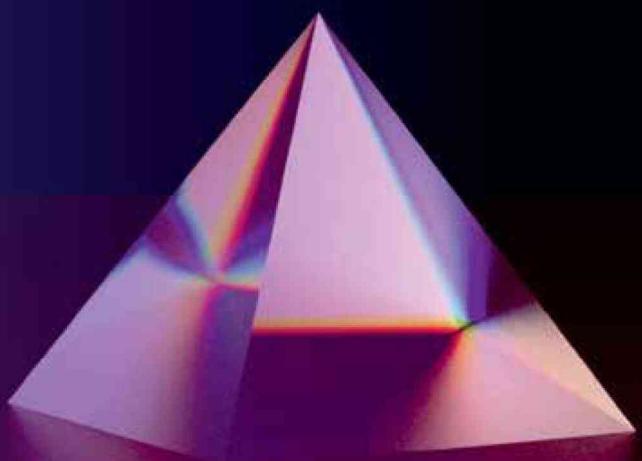
Gurugram, Delhi-NCR

JAN-MARCH
2022



**School of Engineering
and Technology**

PRISM



ABOUT SCHOOL OF ENGINEERING AND TECHNOLOGY

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 a professional approach in the field of Engineering and Technology, to make them 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.

SCHOOL OF ENGINEERING & TECHNOLOGY

- B.Tech - Computer Science & Engineering (CSE) with AI & ML with academic support of Samatrix and IBM
- B.Tech - Computer Science & Engineering (CSE)
- B.Sc.(Hons.) - Computer Science with Academic Support of IBM
- B.Tech - Mechanical Engineering (ME - Automotive Designs & Electrical Vehicle) with Academic Support of Siemens
- B.Tech. (Civil Engineering) with specialization in Sustainable Development & Smart Cities
- BCA with Specialization in AI & Data Science with Academic Support of Samatrix and IBM
- B.Sc.(Hons.) - Cyber Security
- B.Sc.(Hons.) - Data Science
- B.Tech - Computer and Electronics Engineering (CEE)
- B.Tech - Computer Science & Engineering with specialization in Cloud Computing in association with Xebia*
- B.Tech - Computer Science Engineering with specialization in Full Stack Development in Association with Xebia*
- Integrated B.Tech (CSE) + MBA With Academic Support of IBM and Samatrix*
- B.Tech. in (Computer Science & Engineering) (CSE) with specialization in UX/UI in association with ImaginXP

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INDEX

CONTENT	Page No.
CAREER COUNSELING WEBINAR BY ACE TECHNOLOGIES	1
HACK KRMU” 2022 HACKATHON EVENT	2-3
INTRA UNIVERSITY DANCE COMPETITION SHOW YOUR MOVE	4
INDUSTRIAL SITE VISIT TO SOHNA ELEVATED ROAD PROJECT GURUGRAM	5
EDUCATIONAL TRIP TO SURAJKUND, FARIDABAD	
STUDY & ANALYSIS OF GRID CONNECTED SOLAR MODULES	6
TERI GRAM RETREAT FIELD VISIT REPORT	7
STUDENT DEVELOPMENT PROGRAMME	8
ALIBABA -CLOUD LOW CODE WEBSITE DEVELOPMENT-2022	9
PUBLICATIONS IN JAN -MARCH, 2022@SOET	10-12
STUDENTS’ CORNER	13

CAREER COUNSELING WEBINAR BY ACE TECHNOLOGIES

To discuss and make aware about the several career opportunities with students, Department of Computer Science & Engineering, School of Engineering and Technology (SOET) organized “Career Counseling Webinar by ACE Technologies”, on Thursday, 24th March 2022, at A-213 Hall, A-Block, K. R. Mangalam University, Gurgaon. A total of 125 students attended the webinar.

The webinar started by the welcome note, delivered by Mr. Ashwani Kumar, Assistant Professor, Department of Computer Science & Engineering. The speaker of the event was Mr. Anish Singh Rajput, who is motivational speaker and IIT Bombay Alumnus, and is presently working as senior faculty member at ACE Technologies.

Mr. Singh discussed about the importance of GATE examination and various ways to prepare and crack the examinations. He also suggested few core areas, where the students need to focus in order to obtain the good rank in the GATE examination.

Mr. Singh also discussed about the various opportunities which can be availed by the students after clearing the GATE Examination. Along with that, the speaker also discussed about the hierarchy of the IT companies and roles and responsibilities which are taken up by the employees of IT Company.

SOME GLIMPSES:



HACK KRMU" 2022 HACKATHON EVENT

To promote and encourage an atmosphere of building solutions and hacking together projects among students, the School of Engineering & Technology (SOET) of K. R. Mangalam University along with Computer Society of India (CSI) Student Chapter KRMU, with Hughes Systique Corporation as knowledge partner, organised a 2-days-long hackathon event named "Hack KRMU" on 22nd and 23rd February 2022.

The event gathered a grand total of 362 participants from its mini-events "Technical Workshop", "Type Racing Competition", "Debate Competition", "Extempore Contest", "BGMI Gaming Contest" and the main hackathon submissions. For the main hackathon itself, a total of 83 registrations took place, which consisted of 55 solo/individual entries, and 28 team entries (comprising a total student count of 134) from students all over India. A sum total of Rs. 14,000 was awarded to winning students as cash prize, of which Rs. 12,000 was for the winners of main hackathon, and the rest Rs. 2,000 was distributed among winners of "BGMI Gaming Contest", "Debate Competition" and othermini-events.

The submissions to main hackathon event was judged by a panel consisting of Ms. Minakshi Katoch, Assistant Professor at K. R. Mangalam University, Mr. Mayank Maheshwari, Chief Engineer at Hughes Systique Corporation and Mr. Prateek Pandey, Senior Software Engineer at Nirmata.

The event incharge and coordinators were Dr. ShwetaBansal, Head of Department (HOD) of Computer Science at K. R. Mangalam University, Mr Ashwani Kumar and Mr Amar Sraswat and student coordinators Mohit Chahal, Gunesh, Nidhi, Abhinav, Aarzoo, Rishav and Yukti Sharma.

The event took place in hybrid form, that is, some of the mini-events (namely, Debate & Extempore Contests) took place entirely offline, while all the rest (along with the main hackathon meetings) took place through online medium via Microsoft Teams meetings. The event was an overall success where students got an opportunity to build projects that solve real world problems, got to take part in light hearted activities like BGMI Gaming, in thought

provoking events like the Debate & Extempore Contests and informational Technical Workshops, creating an overall healthy, educational and fun experience for all who took part in theevent.



Quiz Blob - Techncal Quiz Competition

Computer Society of India (CSI) Student Chapter of K. R. MangalamUniversity organised an offline technical quize contest called "**Quiz Blob**" on 10th March 2022. The event took place in the university campus in B-316.

A total of 37 students registered and took part in the offline quiz contest. The quiz contained questions related to basic Computer Science topics and current affairs of IT worldwide.

The event was an overall success. Students that took part had an overall positive experience with the event. The contest renewed a competitive spirit among students whilst maintaining a healthy environment for learning.

The event was organised and coordinated by CSI coordinators Dr. Swati and Dr. Meenu of K. R. Mangalam University with Head of Department of CSE Department, Dr. Shweta Bansal as key guest to the event. Student coordinators Mohit Chahal, Harsh Kumar, Gunesh Gautam, Aarzoo Shukla, Nidhi Jha, S Mahima Manuela, and Ankit Luthra and Rishav Jha and R Rohit Chandran of B.Tech CSE IIIrd semester volunteered and helped coordinate the event.



Event participants, winners, spectators and coordinators

INTRA UNIVERSITY DANCE COMPETITION "SHOW YOUR MOVES

To showcase the talent of students, the School of Engineering and Technology at K R Mangalam University had organized a dance competition "SHOW YOUR MOVES" on March 25, 2022 . The contest took place at the Moot court in Block A, with a total of 18 students participating for the event and an audience of 120 students.

At the end, the first prize was grabbed by Srikant A who was awarded with a cash amount of Rs 800/- and a trophy. Second position was grabbed by Tanya Shrivastva who received Rs 600/- as cash prize and a trophy. And the last but not the least third prize was given to Meenal Sharma who received Rs 400/- as cash prize and a trophy. The consolation prize was given to the group dance Archi and group and a solo performance by Kewal Gupta.



INDUSTRIAL SITE VISIT TO SOHNA ELEVATED ROAD PROJECT GURUGRAM

Department of Civil Engineering, SOET has organized an Industrial visit to Elevated road Project site, Gurugram on 13th April 2022, for the students of Civil department coordinated by Faculty members Ms. Gauri Aglave and Ms. Sarah Khan.

Sohna Elevated road project is the construction of 21-km road aimed at reducing the travelling time between Alwar in Rajasthan and Gurugram to under two hours by providing signal-free travel

The visit was extremely beneficial for the students as it has given them insight about the working mechanism of a construction group and on-site activities carried out in bridge construction.



EDUCATION TRIP TO SURAJ KUND FARIDABAD

An Educational Trip to Suraj Kund Exhibition was organized for the students by the Department of Computer Science & Engineering, School of Engineering & Technology, K. R. Mangalam University, Gurgaon. On 1st April 2022, around 125 students along with faculty members visited the Suraj Kund Exhibition. The faculty coordinator was Dr Shweta A. Bansal and Ms. Puja Acharya.

The major motive of the visit was to introduce the students with the current market scenario, and to explore several domains, where technology could be used in the effective way. The students made the analysis about the several factors, such as kind of waste material which is being collected in the exhibitions and the fairs, and how to turn it into the useful products or recycle it using the technology.



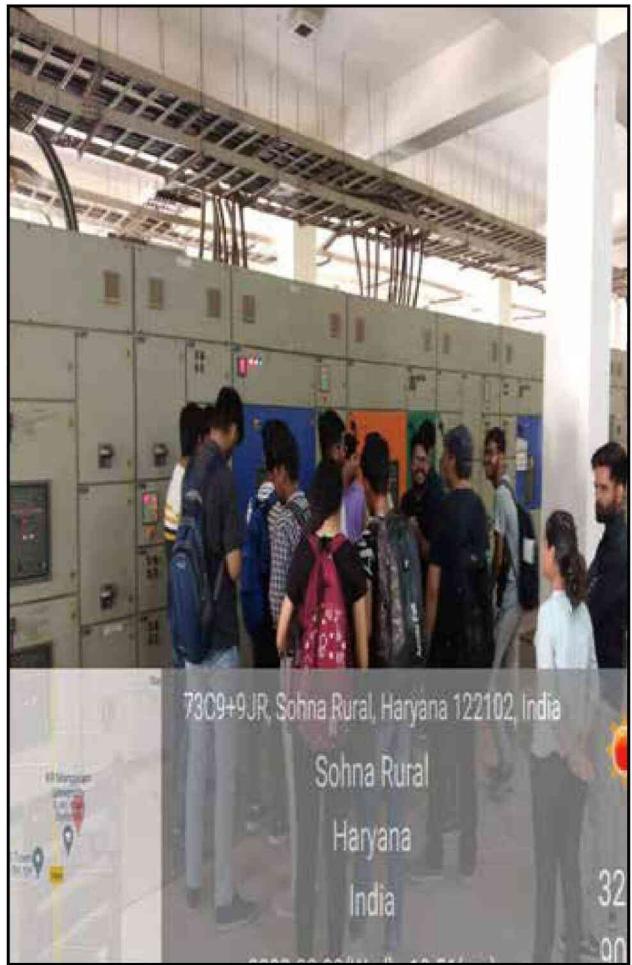
STUDY & ANALYSIS OF GRID CONNECTED SOLAR MODULES

The Department of Electrical & Electronics Engineering and Department of Mechanical Engineering organized two days field visit on solar installation. Morning half of the first day of the visit started from the C- Block rooftop.

The students were told about solar modules rating, installation capacity, angle of installation, direction on module etc. The dust accumulation over the panels, bird dropping, and hot spotting was discussed and observed. The control panels over the C block roof top were shown to the students and controlling strategies was discussed.

The second day of the visit started with the transformer room of the university. The students observed the three-phase transformer (delta – star), cabling, tap changing and the various protection schemes. The students were keen to learn about the practical things. They have shown interest in the various equipment and opened single phase induction motor to get the insight of the motor. After gaining knowledge from transformer room, students visited the DG set. During the two days visit students have observed- three mode of power supply i.e. from grid, solar panels, and DG set.

Ms. Minakshi Katoch, Dr. Bhavesh Vyas, and Mr. Shri Ram faculty coordinators from SOET organized the event on 22 March and 23 March 2022.



TERI GRAM RETREAT FIELD VISIT REPORT

Students of Electronics & Communication Engineering, Electrical & Electronics Engineering, and Mechanical Engineering visited The Energy And Research Institute on 06 April 22. Ms. Minakshi katoch, Ms. Puja Acharya and Dr. Bhavesh Vyas visited TERI Gram, Gwal Pahari, Gurugram, Haryana recently. The visit started with a presentation in GANGA conference hall. The Teri expert Mr. Suresh Dev, Deputy Manager, TERI Gram explained about the history of TERI, Research, and Innovation of at TERI. The research work at TERI focused on the real time problems which drag us away from attaining Sustainable Development Goals(SDG).

THE HIGHLIGHTS OF THE VISIT WAS:

- Briefing students about role of sustainable development with reference to present scenario.
- Latest research of distributions of load demand with nature inspired technique is deliberated.
- Utilizations of agro waste obtained from nature is to create coal substitutes was explained.
- With smokeless chulha running on reduced emission based fuel prepared from waste obtained from nature.



Students at TERI

STUDENT DEVELOPMENT PROGRAMME

Comprehensive Approach – Water Proofing and Repair of Building Structures Dr. Fixit Institute, Pidilite Industries Limited, Mumbai

Civil Engineering Department, School of Engineering and Technology has organized a Student and Faculty Development Programme on "A Comprehensive Approach – Water Proofing and Repair of Building Structures by Dr. Fixit Institute, Pidilite Industries Limited, Mumbai from 28th to 30th March, through digital mode. The programme was attended by 6 students and 3 faculty members of Civil Engineering Department coordinated by Ms Sarah Khan.

The programme was conducted by Mr. Sanjeev B. Yelsangikar (Section Head-Training); Ms. Seema Samshette (Section Head-Training) and Mr. Teertha Pratim Banerjee (Head-Training) associated with Dr. Fixit Institute of Structural Protection and Rehabilitation (DFI-SPR), a Not-for-Profit knowledge centre primarily acting as a platform for enhancing the service life of built environment through global sharing of knowledge and practices in the field of Waterproofing, Structural Protection, Repair and Rehabilitation. The Institute is promoted by Pidilite Industries Limited.

SOME OF THE GLIMPSES



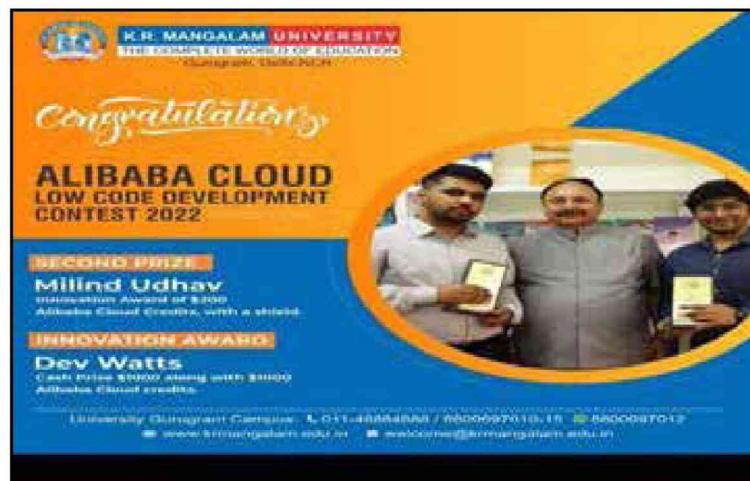
ALIBABA -CLOUD LOW CODE WEBSITE DEVELOPMENT-2022

Alibaba Cloud Low -Code Development Contest 2022. This contest welcomes participants from both technical and non-technical backgrounds where students are submitting their own website creation project online. Engineering, researchers, faculty & staff members of K R Mangalam University registered for the competition.

Indiaspark conducted Bootcamp for the students with the guidance of our Hon'ble Vice Chancellor, K R Mangalam University. This competition greatly encourages students to build solutions with their innovation by using Alibaba Cloud's low-code development tools.

Students are very much excited to win a total of \$15,000 in prizes. As per Ms. Roopa Tanti (Founder & CEO- India Spark) quoted that Low- code development is the current buzz around the emerging technologies platforms and Universities like K R Mangalam University are empowering the students by further enabling campaigns, live projects and encouraging the students both from technical and non- technical backgrounds.

Total 75 students were registered for the contest. The Faculty coordinator was Dr Shweta Bansal Monika Khatkar and Ms Jyoti from the CSE department. The event was organised in Lab 1 and Lab 3 of the A-Block .



Publications in Jan 2022@KRMU						
Sr. No	Faculty Name	School	(b) Book / Book Chapters in UGC CARE List-I/ UGC CARE List-II (c) Conference proceedings in Scopus/ WoS	Title of the paper/Book/ Book Chapter/ Conference Proceeding/ Patent	Name of Journal/ Book Publisher/ Details of Patent	DOI/Web link
1	Dr. Kaushal Kumar	SOET	Scopus Index	Prediction of head loss for fly ash- water slurry flow through 90° bend pipe using Computational fluid dynamics	Materials Today Proceeding	https://doi.org/10.1016/j.matpr.2022.01.197
2	Dr Shweta A Bansal	SOET	Scopus Index	Cross Linguistic Acoustic Phonetic Study of Punjabi and Indian English	Communications in Computer and Information Science, vol 1546. Springer, Cham.	https://doi.org/10.1007/978-3-030-95711-7_13
3	Dr. Jarnail Singh	SOET	Science Citation Index	Oxygen defects induced tailored optical and magnetic properties of FexCr2-xO3 (0 ≤x≤ 0.1) nanoparticles	Applied Physics A Materials Science & Processing	https://doi.org/10.1007/s00339-021-05233-x

Publications in feb 2022@KRMU						
Sr. No	Faculty Name	School	(b) Book/Book Chapters in UGC CARE List-I/ UGC CAREList-II (c) Conference proceedings in Scopus/ WoS	Title of the paper/ Book /Book Chapter/C onference Proceeding s/Patent	Name of Journal / Book Publish er/ Details of Patent	DOI/Web link
1	Dr. Prabhakar Bhandari	SOET	Conference proceedings in SCOPUS	Experimental Investigation of Variable Tip Clearance in Square Pin Fin Microchannel HeatSink		https://doi.org/10.1616/j.matpr.2022.01.197
2	Dr. Prabhakar Bhandari	SOET	Conference proceedings in SCOPUS	Heat Transfer Augmentation in Micro Pin Fin Heat Sink Using Out of Plane Fluid Mixing		DOI: 10.1615/IHMTC-2021.2400
3	Dr. Kaushal Kumar	SOET		Study of Discharge Outlines of SubthalamicNucleus-Globus Pallidus External and the Favorable Impact of Deep Brain Stimulation in the Parkinson State	Journal of Pharmaceutical Research International	DOI: 10.9734/jpri/2022/v34i12B35563

Publications in March 2022@KRMU					
Sr. No	Faculty Name	School	Title of the paper/ Book/Book Chapter/Conference Proceedings/Patent	Name of Journal/ Book Publisher/ Details of Patent	DOI/Web link/ Patent ID
1	Dr Shweta Bansal	SOET	Published	Artificial Intelligence and achine Learning based autonomous e- waste management system for smart environment	202241012594
2	Dr. Vineet Dahiya	SOET	South African Patent Granted:Smart Monitoring And Control of An Indoor Vegetation Environment System Using Artificial Intelligence And Machine Learning Approach Patent No:2021/10209 Grant Date:2022/02/23		
3	Dr. Kaushal Kumar	SOET	German Patent Granted on 11-3-2022 titled process of Hybrid concrete. Patent number-20 2022 100 491		

1. अंजान शहर में नया मकान बनाया है,
तुम से दूर रहकर भी तुम्हे अपनी जान बनाया है,,
मत देखा करो मुझे इन तिरछी निघाओ से ए मेरे कातिल.....
मत देखा करो मुझे इन तिरछी निघाओ से ए मेरे कातिल.....
इत्ती छोटी सी उम्र में ही अलग सा रुतबा और नाम बनाया है.....

2. तेरी ही चाहत है मुझे, इसके सीबा मुझे कुछ नहीं दिखता,
जब भी ना मिले तु, दिल घबराता है, मन को सुकून नहीं मिलता,
जब भी पूछा किसी ने तुम्हे कौन प्यार है, x2
तेरी सूरत दिखा दी, बोला इससे प्यारा कुछ नहीं लगता !!

3. मिजीज ए दिल उलत मानना कैसे..
दर्द ए दिल तुमको सुनना कैसा !!!!
अब तो तुम हो चुकी हो गैरों की..
अब तो तुम हो चुकी हो गैरों की..
फिर मेरी बाहों में आके वक्त गुजारना कैसा

4. तेरी कशिश की जाम को ऐसे ही छोड़ दिया,
मैखाने से निकला और एक पैगाम छोड़ दिया,,
अब तु मिले या ना मिले कोई फर्क नहीं,,,
क्युकी तु बेवेफा थी और तुझे बदनाम ही छोड़ दिया



NAME – DIKSHIT JHA
COURSE – B.TECH CSE AI ML
YEAR – 2021-22
ROLL NO 2101730018

समय तेरा होगा
सबके लबों पर एक दिन तेरा ही नाम होगा,
हर कदम पे तेरे, दुनिया का सलाम होगा,
हर मुसीबत का सामना करना तू डटकर,
देखना समय एक दिन तेरा भी गुलाम होगा।

आशीष कौशिक
B.TECH CSE(AI & ML)
2101730004
SEM-2

A COMPROMISE

Parents is not just a word

Its mean alot

These are not seven letters to throw

These Are seven colours of rainbow

They teach us different lessons

Teach us to touch feet of elders

To take Blessings

The other meaning of parents is improvised

That is compromise

They just delay their needs to reach us on time

inspite of these we there aren't kind

Always remember to make them laugh

Because they always remain on your behalf

They compromise their needs

Only and only for their kids

They just fulfill our needs by compromise

Never let us know the price

Just because our parents are always kind



Name : Sweta Rawat
Course:
Year 1st
Roll no. :2101010039

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