

MEMORANDUM OF UNDERSTANDING (MOU)

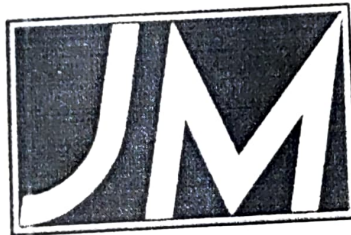
Between



K.R. MANGALAM UNIVERSITY
EDUCATION FOR LIFE
(Recognized by UGC and a member of AIU)

K.R. MANGALAM UNIVERSITY,
Sohna Road, Gurugram (Haryana)-122103

-- and --



J.M. ENVIRO NET PRIVATE LIMITED
Registered office at 403, 4th Floor, Jaipur Centre, B2
Bye pass, Tonk Road, Jaipur, Rajasthan- 302 018

P. H. Singh

Jmd

Registrar

K.R. Mangalam University
Sohna Road, Gurugram, (Hary

Mahajan

hang

MEMORANDUM OF UNDERSTANDING

The Memorandum of Understanding is executed on 19th day of May, 2022.

BETWEEN

K.R. Mangalam University, Sohna Road, Gurgaon - 122103 (Delhi NCR Region), a University established under the Haryana Private Universities Act 2006 (Amended 08 of 2013) and under section 2(f) of UGC Act, 1956 wherein empowered to award degrees, as specified under section 22 of the UGC Act, 1956, through its Registrar, duly authorized to enter into and sign an MOU on behalf of K.R. Mangalam University (hereinafter referred to as KRMU) PARTY OF THE FIRST PART.

AND

J.M. EnviroNet Private Limited with its registered office at 403, 4th Floor, Jaipur Centre, B2 Bypass, Tonk Road, Jaipur, Rajasthan- 302 018, through _____ duly authorized in this regard to sign an MOU on behalf of JMEPL), PARTY OF THE SECOND PART.

The expression KRMU and JMEPL shall, mean and include the Institutions/Organizations, their successors, appointees, assignees etc.

KRMU and JMEPL are individually referred to as "Party" and jointly as "Parties".

WHEREAS

JMEPL is working in the field of Environment Management Services provider consultant, for past 28 years, who is accredited from NABET-QCI [National Accreditation Board for Education and Training (NABET) Certificate No.- NABET/EIA/2023/RA 0186

AND WHEREAS Both parties have decided and agreed to work on mutually agreed terms mentioned in Articles below

NOW THIS MEMORANDUM OF UNDERSTANDING WITNESSES:

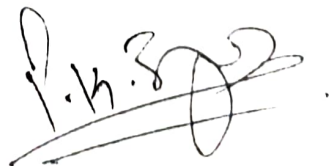
1. **AREAS OF COLLABORATION:** That there will be collaboration between the KRMU and JMEPL in the areas of joint interests listed below:

- Research Papers related to Odour.
- Air, Water, Odour and Soil related Technology, Solution to a problems and predictive modelling/ Mapping of various parameters.
- Green and Smart Cities Initiative.
- Waste water treatment in villages through planning, mitigation measures, Chemical treatment, Technology. This project can also work on the affects of waste water on the



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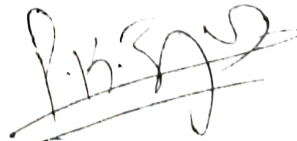
odour, water quality and water waste of the particular area. Deducing of plans for water conservation.

- Imagery of water drains to find their location and their path. This is to be done to find the source of clean potable water. Also design there cleaning and storing methods.
 - Continuous monitoring of Villages under CSR.
 - Development of formulae for treatment of foreign particles in air, water and soil.
 - Research and mitigation methods of the traces of Virus and Bacteria in the Sewer lines.
 - Rate data collection and analyzation of the Hydro projects.
 - Ground water modelling diploma and Hydrogeology studies.
 - Social Impact assessment - Internship, Placement, Remedial measures and need based assistance for mitigation.
 - Biodiversity and wildlife - Data collection, research, Remedial Measures and primary survey.
 - Social outreach - Eco- village development plan and EHS guidelines.
2. That this collaboration will extend the facilities of the two Institutions/labs for
 - Complementing joint research projects and to train each other's' students to facilitate the overall research, training and Placement.
 - Students can approach to purchase any type of environment sensor for their research projects.
 - Procurement of data related to sensors for environment drones and technology.
 3. That the two Institutions will conduct joint programs including offering courses and training as per mutual interest.
 4. That wherever there is potential for research funding from national/international agencies, the applications for such funding in areas of mutual interest may be submitted jointly after obtaining permission of the competent authorities of the two Institutions.
 5. That KRMU and JMEPL will independently cover the cost of research chemicals and other expenditure incurred in connection with the research collaboration.
 6. That JMÉPL will extend its facilities and provide short-term training to students and faculty members of the KRMU in their areas of specialization, on the request from KRMU.
 7. The Scientists of JMEPL may be invited to deliver lectures in specific courses or conduct seminars at KRMU.



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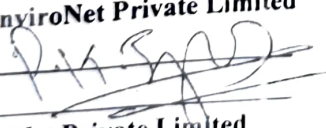
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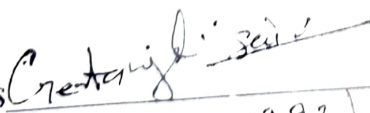
8. That Mobility of Professors/Faculties of KRMU and Scientists of JMEPL between KRMU and JMEPL will be courage.
9. That IPR generated under the joint research program shall be jointly shared by JMEPL and KRMU. That if any IPR related issues arise, the same shall be jointly resolved by JMEPL and KRMU.
10. That the tenure of this MOU is two years from the date of signing of the MOU. This MOU may be amended/extended for specified duration by mutual consent in writing of both the parties.
11. That this MOU may be terminated by either party at any time provided that the terminating institution gives to her party written notice of intention to terminate at least six months prior to termination.
12. That a joint committee with two members from each side's shall be constituted to periodically review the progress of this MOU.
13. That in the even to if any dispute rising out of this Memorandum of Understanding or in its enforcement; the parties to this MOU will resolve the same amicably. However, in case the dispute remains sun resolved, it shall be referred to an independent arbitrator appointed by KRMU/JMEPL . The decision of the arbitrator shall be final and binding upon the party concerned. The seat of arbitration shall be Delhi.

Now, in witness where off, the Registrar, KRMU and the HR Manager, JMEPL ceutical (P) Ltd has her into signed this MOU on the day and year first written above.

For J.M.EnviroNet Private Limited



 J.M.EnviroNet Private Limited
 403, 4th Floor, Jaipur Centre, B2 Bye pass,
 Tonk Road, Jaipur, Rajasthan- 302 018

1. WITNESS


 9971679921

For K.R. Mangalam University
 Gp. Capt. Praveen Mahajan
 Registrar
 K.R. Mangalam University
 Sohna Road, Gurugram-122103

2. WITNESS

 (Deepak Mishra)



Registrar
 K.R. Mangalam University
 Sohna Road, Gurugram, (Haryana)

K.R. Mangalam University, Gurugram
School of Basic & Applied Sciences
In Collaboration with
JM Enviro Lab Pvt. Ltd., Gurugram

Organizes

A Seminar on

“Water Quality and Sanitation: Impact on Human Health”



Date: 11-October-2022
Time: 11:55 AM onwards
Room No.: B014


Resource Person:

Dr. Nisha Yadav
Assistant Manager
JM Enviro Lab Pvt. Ltd.

Faculty Coordinators

Dr. Pawan Kumar, Associate Professor, SBAS

Dr. Diwakar Padalia, Associate Professor, SBAS


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Report on

A Seminar on Water Quality and Sanitation: Impact on Human Health

(Under the MoU between KRMU and JM Enviro Lab Pvt. Ltd., Gurugram)

Date: Tuesday, 11th October 2022

Venue: Room No. B-014 (Offline mode), B Block, K.R. Mangalam University, Gurugram

Event Type: Seminar

Mode of Activity: Offline

Target Group: Students

Resource Person (if any): Dr. Nisha Yadav, Assistant Manager, JM Enviro Lab Pvt. Ltd.

Coordinators: Dr. Pawan Kumar and Dr. Diwakar Padalia

Organized by: School of Basic and Applied Sciences

Number of Participants (Attendance attached as an annexure): 20

Dr. Nisha Yadav interacted with students and shared her knowledge on the topic of the seminar. During her talk she shared that the water is one of the most essential resources on Earth and necessary for the survival of all living species. Water plays a significant role in human life. Only 1% of the freshwater is available for drinking. Water pollution occurs when a body of water becomes contaminated, usually by chemicals or microorganisms. Water pollution can cause water to become toxic for humans and the environment. Water is referred to as the universal solvent, as it dissolves most of the substances than any other liquid. However, this ability means that water is easily prone to pollution.

She also shared that since the 1990s, water pollution has worsened in almost all river in Asia, Latin America, and Africa. Around 785 million people do not have basic drinking-water services. Over half the global populations do not have safely managed sanitation services. Experts estimate that by 2025, half the world's population will live in a water-stressed environment. Around 2 billion people live in countries with high levels of water stress, meaning the amount of water available is less than the amount required.

Dr. Nisha Yadav discussed with students about sanitation which is the process of keeping

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places free from dirt, infection, disease, etc. by removing waste, trash and garbage, by cleaning streets washing hands and drinking safe water. Sanitation and hygiene are crucial for everyone since they aid in the maintenance of health and the extension of life spans. Sanitation is another very important aspect. Many of the common diseases such as roundworms spread through the faces of infected people. By ensuring that people do not defecate in the open, we can completely eliminate such diseases and even more severe ones such as the one caused by E. Coli. Worldwide, one in three people do not have access to safe drinking water, two out of five people ~~do not have a basic hand-washing facility with soap and water, and more than 673 million people~~ still practice open defecation.

Then Dr. Nisha Yadav recommended that the sensitizing people about the ill effect of sanitation in their surroundings and the need to draw attention to the water-related threats to nutrition that are intensified by climate change, especially in regions already facing a high burden of child stunting. Finally, she concluded that there is a need for more experience and guidance to support equitable and nutrition-sensitive use of water resources both within and across countries. With the right policies in place, countries will be better positioned to harness the power of water for improving nutrition and strengthening human capital. Interventions that encourage a healthy lifestyle or provide education about nutrients and supplements may help decrease the prevalence of malnutrition. Treatment usually involves assessment by a doctor and recommendations from a dietitian. The seminar left an impactful impression on students' mind: they got many useful information about unsafe water, sanitation and hygiene and steps that can be taken up to improve quality of water **and** human health.



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Photo 1: Students attending Seminar on Water Quality and Sanitation: Impact on Human Health at K.R. Mangalam University, Gurugram, and Room No. B-014, on 11 Oct 2022. Dr. Nisha Yadav, Assistant Manager from JM Enviro Lab Pvt. Ltd, Gurugram delivering a lecture on the seminar topic.

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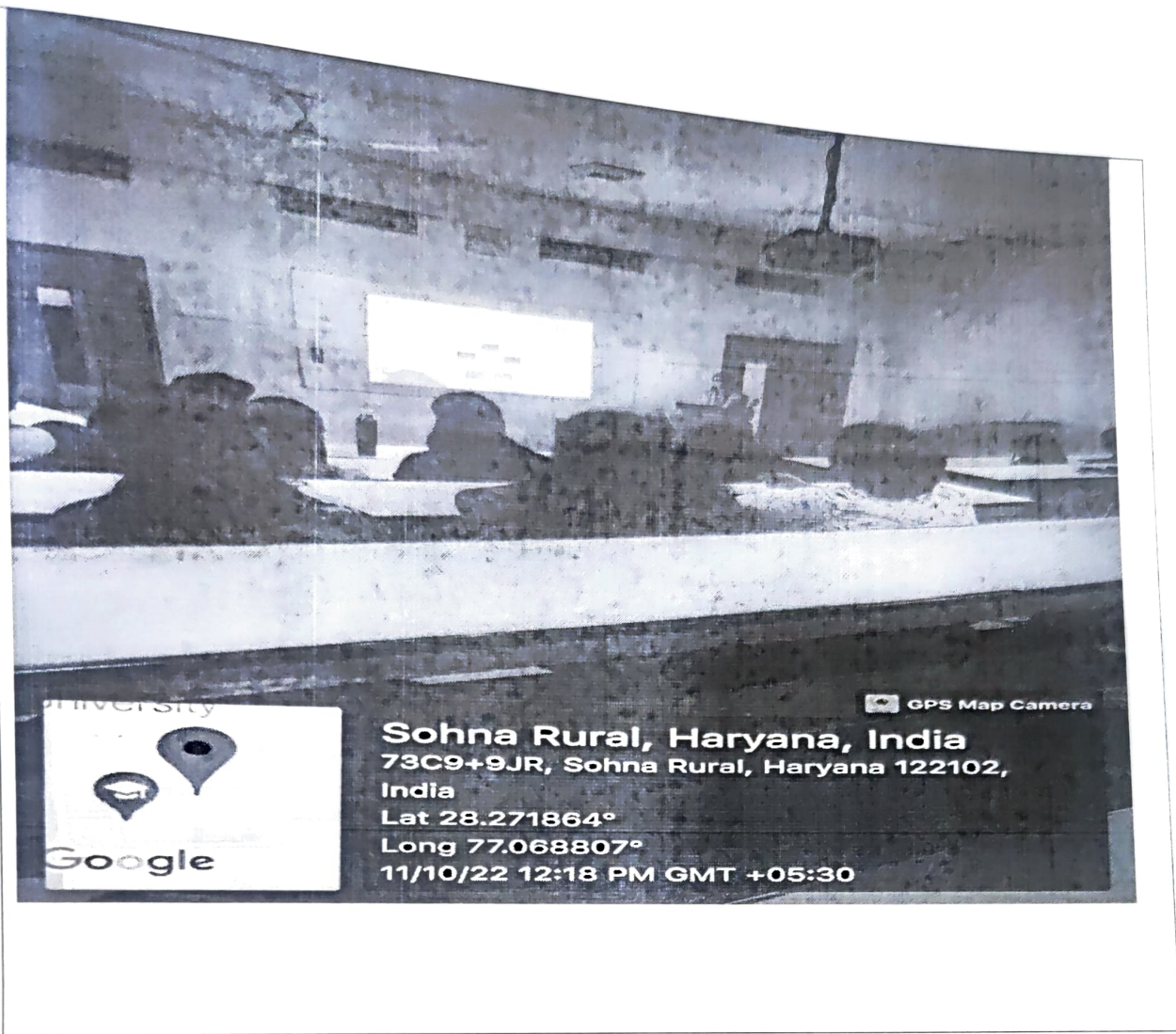

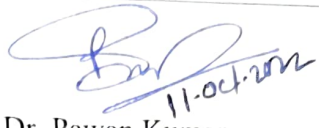
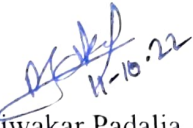



Photo 2: Students attending Seminar on Water Quality and Sanitation: Impact on Human Health at K.R. Mangalam University, Gurugram, and Room No. B-014, on 11 Oct 2022. Dr. Nisha Yadav, Assistant Manager from JM Enviro Lab Pvt. Ltd, Gurugram delivering a lecture on the seminar topic.


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Report prepared by	 11-oct-2022 Dr. Pawan Kumar
Report verified by Event Coordinator	 11-oct-2022 Dr. Pawan Kumar  11-10-22 Dr. Diwakar Padalia
Report Seen by Dean / Club Coordinator / Activity Coordinator/ IQAC Director / Registrar	 11/10/22 Meena

Annexure I: Attendance

Annexure II: Feedback of the students


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Name of Activity: Seminar on Water Quality and Sanitation: Impact on Human Health

Date: 11-Oct-2022

Venue: B014

Organized by: (School/Department) : SBAS/Physics

ATTENDANCE RECORD

Sr. No	Roll No.	Student Name	Programme & Semester	Signature of Student
1	—	Bilal Ahmad	B.Sc F.S	
2	2203100001	Wabang	BSc Chem	Wabang
3	2203370015	DIVYA PANWAR	B.Sc(H)F.S.	
4	.	Kashish	Bsc Phy (H) I	
5	2203370022	Sakshob	BSc(Hon)F.S	
6	2203370018	Johnsy Daviya	BSC(H)F.S	
7	2203090063	Anjal	B.S.C (P)	
8	2203100003	Somya	B.Sc(H) Chem	
9	—	Kanya Singh	Bsc (F.S).	Kanya
10	—	Sahitya Ranjan	Bsc(H)F.S	
11	2203100002	Shreya	B.Sc (H) Chem	
12	2203370011	Prayantika Rishi	B.Sc Forensic	
13	2203090063	Sumit Yadav	BSc Physics	
14	2203370004	Sumit mandal	Bsc. Forensic	
15	2203370016	Arshika Singh	B.Sc.F.Sc.	
16	2203370008	Sanjeen	Bsc.F.Sc.	
17	2203370009	Prekati	Bsc.F.Sc.	
18	2203370006	Shreya	B.S.F.F.S	
19	2203370002	Shashwati	Bsc.F.Sc.	
20	2203370003	Khushboo	Bsc.F.Sc.	

Signature of Faculty Incharge with date:

11-Oct-22

11/10/2022

Registrar



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

SCHOOL OF BASIC AND APPLIED SCIENCES
AND
SCHOOL OF ENGINEERING & TECHNOLOGY

Academic Session 2021-22

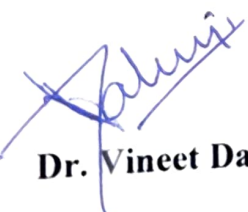
SBAS/SOET/Notice/2021-22/016

3rd June 2022


NOTICE

INDUSTRIAL VISIT TO J. M. ENVIRONET PVT. LTD. GURUGRAM

1. School of Basic and Applied Sciences and School of Engineering and Technology are planning for an industrial visit to J. M. EnviroNet Pvt. Ltd., Gurugram on 6th June 2022 along with faculties and students on the occasion of World Environment Day.
2. The main purpose of this visit to sensitize faculties and students regarding the environmental issues and their possible solutions through industries intervention.
3. The visit will enable the students to learn about the principles and working of instruments used for analysis.


Dr. Vineet Dahiya
Event-In-Charge


Registrar
K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)


Dr. Meena Bhandari
(Dean, SBAS)



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

REPORT

SCHOOL OF BASIC AND APPLIED SCIENCES

&

SCHOOL OF ENGINEERING AND TECHNOLOGY

Event Name: Educational tour to J.M.ENVIRONET

Target Group: Faculty and students of SBAS &SOET

Date: June 6, 2022

Venue: J.M. Environet, Udyog Vihar, Gurugram

Organisers: Dean, SOET, K R Mangalam University; Dean, SBAS, K R Mangalam University

Introduction: As per NEP-2020, educational institutions are adopting student's centric methods for effective teaching learning process. Most of scientific experiments are feasible in university laboratories as the instruments are available which provide complete understanding about the scientific methodology and principles on which the instruments work, but for others university has to approach nearby industries. Moreover it is duty of university to generate environmental consciousness amongst KRMU fraternity.

JM EnviroNet Pvt. Ltd. is a leading environmental engineering services and solution provider established in 1993. Recently K.R. Mangalam University signed memorandum of understanding with this company to find out solutions to the existing environmental problems.

Objectives:

- To create environmental consciousness amongst university faculty and students
- To acquaint them with scientific principles and instrumentation technique that may be helpful in creating sustainable environment

- To explore solutions for environmental issues through discussions with intellectuals working in the field of environment

Content of the Event: School of Basic and Applied Sciences, and School of Engineering and Technology, K R Mangalam University, Gurugram organized one day educational tour to J.M. Environet, Gurugram. Total nine faculty and three students visited this company engaged in environmental pursuits on June 6, 2022. The event was planned to celebrate **World Environment Day, June 5, 2022.**

World Environment Day is the United Nations day for encouraging worldwide awareness and action for protection of environment to with the objective of “**Only One Earth**”. UGC campaign “Only One Earth” advocates for transformative environmental change on a global scale. This shines a spotlight on climate action, nature action and pollution action while encouraging everyone, everywhere to live sustainably.

Following points were discussed in the meeting with management of JM EnviroNet.

- It has a social responsibility of every institute to be proactive in the efforts towards development in the larger contexts of environmental consciousness amongst all stake holders. Every institution has a mandate to be responsive to at least a few pressing issues such as gender equity, environmental consciousness and sustainability, inclusiveness and professional ethics. JM EnviroNet will cooperate and collaborate with KRMU in this regard.
- This collaboration will help to provide opportunity to selected students to work and provide solutions for real world problems through internship, training.
- JM EnviroNet will provide opportunity to our Civil Engineering and B.Arch. faculty/students to work for HRIDAY project (Ministry of Urban Development, Govt. of India Initiative) which is aimed to preserve the character of the soul of the city and facilitate inclusive heritage linked urban development exploring various avenues including the private sector.
- KRMU will start some courses in collaboration with JM EnviroNet which will focus on skill development amongst students to make them employable and entrepreneurs.
- JM EnviroNet will provide the training of the trainers who are engaged in extension activities. Sustainable analysis of the villages with which KRMU is closely associating will be done.

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- The technician in the laboratories (WET Lab, Soil Testing Lab, Sophisticated Instrumentation Lab (Atomic Absorption Spectroscope, Gas Chromatogram) explained the principles and working of instruments and how they can be helpful in testing of samples.

The visit proved to be a great way to arouse curiosity in the minds of faculty and students which enhanced motivation and concern towards sustainable environment.

Activity Outcome: It was an exhilarating experience for faculty and students. In due course of time, university will work in collaboration with JM EnviroNet for development of green campus, use of AI and ML technology for providing solutions to sustainability, sensor technology, waste water remediation etc.

Conclusion: The visit thus turned out to be successful by fulfilling its aim of imparting environmental consciousness and to align to the theme of “**Only One Earth**” by finding solutions for social and environmental problems.

Future Scope: Such visits are crucial for better understanding of science and technology and how it can fruitful in mitigating existing environment and societal issues prevailing on earth.



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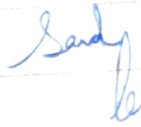

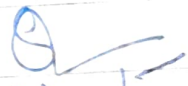
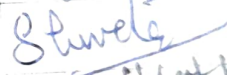
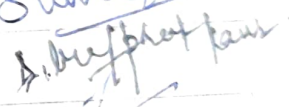


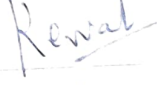

Name of Activity: Educational tour to J.M. ENVIRONET

Date: 6th June 2022

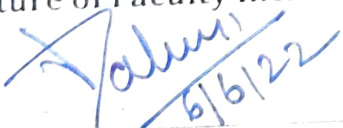
Venue: J.M. Environet, Udyog Vihar, Gurugram

Organized by: (School/Department) Dean SOET and Dean SBAS

ATTENDANCE RECORD

Sr. No	Student Name/Faculty Name	School and Department	Signature
1	Dr. Vineet Dahiya	SOET - EEE/ECE	
2	Ms. Puja Acharya	SOET - EEE/ECE	
3	Dr. Bhavesh Vyas	SOET - EEE/ECE	
4	Ms. Sarah Khan	SOET - CE	
5	Ms. Gauri Aglave	SOET - CE	
6	Mr. Surendra Kumar Yadav	SOET - ME	
7	Dr. Shweta Bansal	SOET - CSE	
8	Dr. Dilraj Preet Kaur	SBAS	
9	Dr. Seema Raj	SBAS	
10	Abhay	B.Sc. General	
11	Kewal Gupta	B.Tech CE - Final Year	
12	Abhinav	B.Tech ME - III Year	

Signature of Faculty Incharge with date:


6/6/22



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K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)