



Jansons Institute of Technology

Department of Mechanical Engineering

Mech.Letter

(Half yearly newsletter)

Volume : 7 Issue : 1

May / June 2023

Editor

- Mr.F.Alexander (AP/Mech)

Advisor Committee

- Dr.M.Muthukumaran (Prof / Mech)
- Mr.S.J.Davis Hans (AP/Mech)

Students Coordinator

Mr. Naveen E

Final Year Mech

Mr. Arjun P

Third Year Mech

Vision of the Department

To groom and mould outstanding professionals in the field of mechanical engineering.

Mission of the Department

M1 : To impart quality-bound technical education through knowledge and innovation to succeed in ever-advancing mechanical streams.

M2 : To sharpen young minds through state-of-the-art facilities and projects towards future challenges.

M3 : To foster ethical values through holistic learning, teamwork culture, and socio-economic standards for sustainable growth.

Program Educational Objectives (PEOs)

PEO1 : Graduates will be practitioners in the design, manufacturing, service, and process industries.

PEO2 : Graduates will pursue higher education, be involved in research or become entrepreneurs.

PEO3 : Graduates will be ethically and socially responsible and contribute to society and the country.

Program Specific Outcomes (PSOs)

PSO1 : Apply knowledge of mathematics, science, and engineering fundamentals to model, design, and analyse components or processes.

PSO2 : Apply the knowledge gained in mechanical engineering to the design of product components using CAD/CAE tools.

PSO3 : Apply the acquired knowledge to innovative solutions to cater to societal needs and industrial problems.

Special Achievements by Students (National/International/Regional)

Student Name	Department & Year	Achievement
Subash. G	IV MECH	Received the Skillful utilization certificate on reviewing Seevaga Sinthamani by JIT Tamil Mandram.
Julia M, Thanusu K Vignesh S and Subash G	IV Mech	Team Shini Unicorns, received the Grant of Rs.75000/- for “Development of Energy Efficient Slot Jet Impingement Evacuated Tube Solar Air Heater assisted dryers for dehydration of onions” from the Ministry of Consumer Affairs under Onion Grand Challenge 2022.
Kumaraguru KS, Steephan N and Hemanathan AK,	IV Mech	Received the fund of Rs.7500/- for “Design and new product development of grandbot for sustainable assistance to geriatrics” (Project Work) from Tamil Nadu State Council for Science and Technology, Chennai under Students Project Scheme 2022-2023.

Publications by students

Julia M Thanusu R Vignesh S Subash G	Thermal Performance analysis of Evacuated Tube solar air Heater with Recycle for Industrial Applications International Conference on Science, Technology, Engineering and Mathematics 2.0 (ICSTEM-23) Jansons Institute of Technology, Coimbatore, May 2023
Arun Eswar M Chidambareswaran K Noahchristy F Gowthaman R	Formability Behavior in Tailored Thin Sheet Metals for Aerospace Applications, International Conference on Science, Technology, Engineering and Mathematics 2.0 (ICSTEM-23) Jansons Institute of Technology, Coimbatore, May 2023
Madhu S Siva S Vivekanandhan K	Performance enhancement of a sandwich structures for light weight applications, International Conference on Science, Technology, Engineering and Mathematics 2.0 (ICSTEM-23) Jansons Institute of Technology, Coimbatore, May 2023

Hemanathan A K Kumaraguru K S Steepan N Dhanush B	Development of Beaters And Rollers For Dry Pith Preparation In Coir Industries, International Conference on Science, Technology, Engineering and Mathematics 2.0 (ICSTEM-23) Jansons Institute of Technology, Coimbatore, May 2023
Gokul Krishna V Vishal S K Karthick R	Investigation & analysis of mechanical and thermal using palf/kenaf fiber, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023
Shathrak K Akash Tkv Jesfer Arun	Performance Evaluation Of Artificially Roughened Triangular Duct Solar Air Heater, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023
Menati Lokesh Shaik Jafar Shaik Masthanvali	Design and development of Stair climbing parallel lift, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023
Challakoti Naresh Depangi Balaganesh Varma Enugonda Naveen	Design and fabrication of a portable waste paper recycling machine, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023
Arusuru Sudheer Pujari Ganesh Naik Yalla Chenchu Venkata Mahendra	Design and development of smart door lock system using finger print, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023
Satvik kumar maliga Shaik suleman Rajamu Sachin Nellore Sasank Netrambaka Venkata Nikhil Sai Sriram Vamsi	Liquid cooling system for Electrical Vehicles, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023

Valluru Vislesh Ponguru Chaithanya kumar Reddy Savidiboyina Gokul Mandhapati bhargav , Alla Sai Babu Gopi Reddy Sethu Bala Sai Srinivas Reddy Somu saikiranreddy	Resin Printed Biodegradable Resin Implants Reinforced With Nano Particles, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023
Pasumarthy Mouneesh Shaik mushraf Sahil gujar mangesh	IoT employed Flood Alerting System for Ground Bridges, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023
Nandimbakam Nithin Joy Murigipudi Madhava Surya	Design and Fabrication of Magnetic suspension, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET), Jansons Institute of Technology, Coimbatore, May 2023

Grants and Funds

Mechanical Engineering	Rs.1,18300	<ol style="list-style-type: none"> 1. Solar Energy Research Centre, 2. The Ministry of Consumer Affairs, Food and Public Distribution (MoCAFPD), 3. Tamilnadu State Council for Science and Technology
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MoU's and Collaborations

- M/s. ESSAR ENGINEERS, Coimbatore - 641049
- M/s. ENERGY PLANT, Coimbatore – 641 016.
- M/s. M S ENGINEERING & AGENCIES, Coimbatore - 641028

Conference, Symposium, Workshops, Seminar, Competitions, Guest Lectures,

Title	Category	Resource Person	Date
Career Advancement Programme on "Opportunities and Career in Oil and Gas Industry"	Seminar	Mr.Dhatchanamoorthy Subramanian, Advanced NDT Inspector, Manchester Engineers Centre, Coimbatore	20-04-2023
Thulir – Workshop on "Prototype Modelling"	Workshop	Dr.S.Elangovan, NISP Coordinator Dr.M.M.Matheswaran, IIC President	17-03-2023
"Project Contest" - CAMCEE'23 – National Level Talent Fest	Contest	Dr.M.Muthukumaran Prof / Mech, Dr.G.Vetrichelvi Prof/ECE and Dr.E.S.Shamila Prof/CSE	25.02.2023
5 Days FDP on "Prospects of Research Towards Innovation Developments in HEI's"	FDP	Dr.C.Bharatiraja., M.E, Ph.D., Dr. T.V.Arjunan, M.E., Ph.D., Dr. R. T. Rajendra Kumar, Ph.D., Dr.S.Radha, M.E., Ph.D., Dr. G.Murali, Ph.D.,	Jan 09-13, 2023

FDP

About JIT

Jansons Institute of Technology (JIT) is a world class Engineering College established in 2009 and the second venture of the Jansons Foundation in the field of Higher Education. JIT has been promoted by the Jansons Business Group which comprises 14 operating companies in five business sectors, predominantly in the Textile sector connecting 40 countries across the world and other sectors are Granite, Retail, Medicare, and Education. JIT is approved by the All-India Council for Technical Education (AICTE) and the Government of Tamil Nadu, and is affiliated to Anna University, Chennai. JIT, guided by its motto, 'the most preferred destination for Technical Education', takes every effort to create infinite opportunities to students for their professional development. JIT employs the finest brains in Technical Education as its faculty to lead its students to a fruitful learning.

About Department

The Mechanical Engineering department started in the year 2009 is well equipped with latest state-of-the-art laboratories and manned by highly qualified and experienced faculty members. It gives lot of exposure to diversified engineering fields. Mechanical Engineers are required not only in Mechanical Industries, but also in Chemical, Process, Fertilizers, software industry etc. Also, they play very important role in Government sectors like Engineering Services, Army, Navy, Air Force, Marine, Power Plants etc. Hence the employment potential is very high for Mechanical Engineers.

About JIT IIC

Institution's Innovation Council (IIC) of Jansons Institute of Technology has been established to steadily foster the culture of Innovation among the students across various departments. Ministry of Education (MOE), Govt. of India has established the Institutions Innovation Council among Higher Education Institutions across India during 2019. The focus of IIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes. IIC is established to promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campus.



ORGANIZING COMMITTEE

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Chairman

PATRON
Shri T.N. KALAIMANI
Shri T.N. THIRUKUMAR
Vice Chairmen

CONVENER
Dr.V.NAGARAJAN
Principal

CO-CONVENER
Dr. M.Muthukumaran
Professor
Department of Mechanical Engineering

CO-ORDINATORS
Dr.M.M.Matheswaran
Associate Professor
Department of Mechanical Engineering

Prof.F.Alexander
Assistant Professor
Department of Mechanical Engineering



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)



Five days
"Faculty Development Program"
(Hybrid Mode)

"Prospects of Research
Towards Innovation
Development in HEI's"

Jan 09-13, 2023

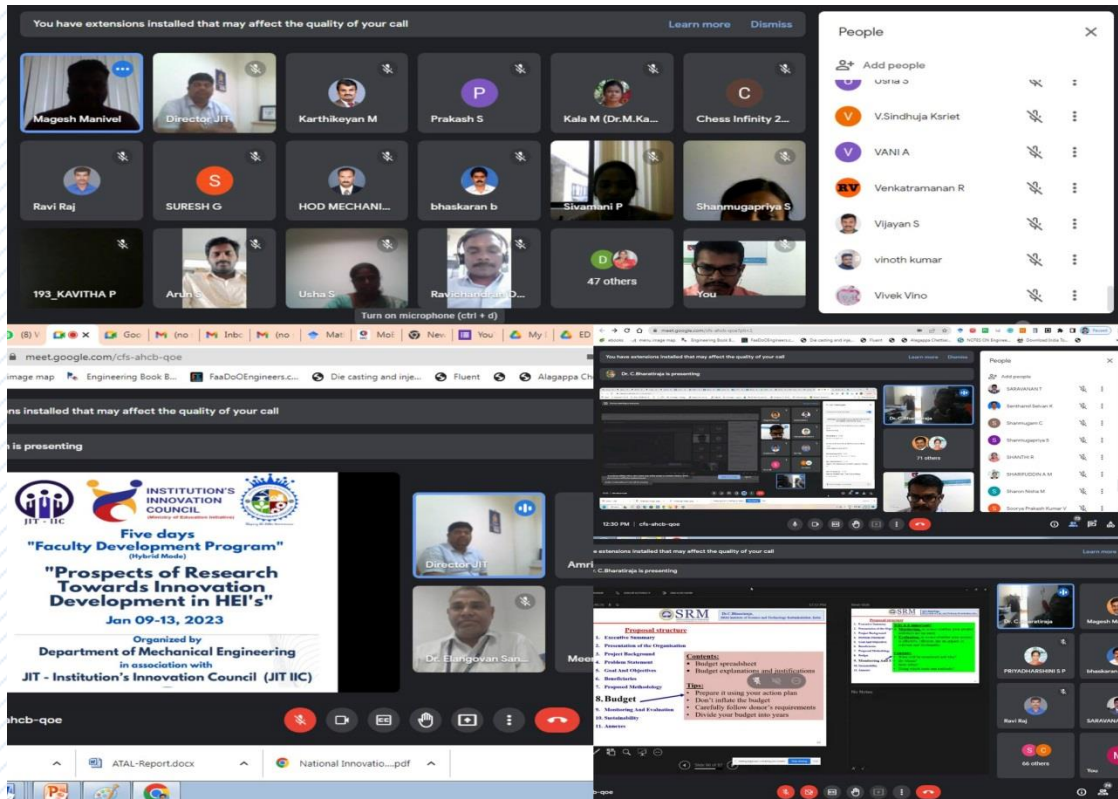


Organized by
Department of Mechanical Engineering
in association with
JIT - Institution's Innovation Council (JIT IIC)



**JANSONS
INSTITUTE OF TECHNOLOGY**

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JIT IIC organizes a Technical Field Visit to "DOJO - Digital Innovation Centre" of ELGI Equipment's Limited on 11th January 2023.

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INSTITUTION'S INNOVATION COUNCIL
 (Ministry of Education, India)

ELGI
 Digital Innovation Dojo

TECHNICAL FIELD VISIT
 to
DOJO - DIGITAL INNOVATION CENTRE
 of
ELGI EQUIPMENTS LIMITED

JAN 11, 2023
WEDNESDAY
09.30 AM

ELGI Equipments Ltd.,
 Trichy Road, Singanailur,
 Coimbatore - 641005

Exclusively for JIT IIC Members

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Department of MECH in association with COINDIA Training Centre, Coimbatore organizes Industry Readiness Course on "Digital Manufacturing for New Product Development" from 25th to 31st January 2023.

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Department of Mechanical Engineering
 in association with
COINDIA Training Centre, Coimbatore

INDUSTRY READINESS COURSE ON
" DIGITAL MANUFACTURING FOR NEW PRODUCT DEVELOPMENT "

Course Coordinators

- Dr.N.Srinivasan, ASP/Mech
- Mr.F.Alexander, AP/Mech

Date : Jan 25-31, 2023 | Time : 09.00 AM - 04.15 PM

INSTITUTION'S INNOVATION COUNCIL
 (Ministry of Education, India)

COINDIA
 COIMBATORE INDUSTRIAL INFRASTRUCTURE ASSOCIATION

Exclusively for Mechanical Engineers

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NATIONAL LEVEL TALENT FEST

CAMGEE '2K23

★ TALENT SHOW ★ HACKATHON ★ SHORTFILM AND REELS
 ★ PAPER PRESENTATION ★ ADZAP AND CONNECTIONS
 ★ BRAIN TEASER ★ PROJECT CONTEST

ON 25th FEBRUARY (SATURDAY)

Registration Fee ₹150

PARTICIPATE AND WIN ATTRACTIVE PRIZES

TO REGISTER

S HARRISH PRASANNA **M GOKUL** **A R RAHUL** **N STEEPHAN** **M SATHYA MOORTHY** **U P DINESH**
 6382170523 6369037872 9894323758 9488364352 7373534323 9489890199

To nurture the young minds to appreciate complex problems and to think of innovative solutions either to alleviate prevalent problems or to improve the quality of life, a project contest was organised by the Department of Mechanical Engineering on Feb 25, 2023 to the students of various institution.



Department of MECH organizes a Technical Talk on "Insight into the Semiconductor Manufacturing" on 10th March 2023.

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DEPARTMENT OF MECHANICAL ENGINEERING

Technical Talk on
INSIGHT INTO THE SEMICONDUCTOR MANUFACTURING

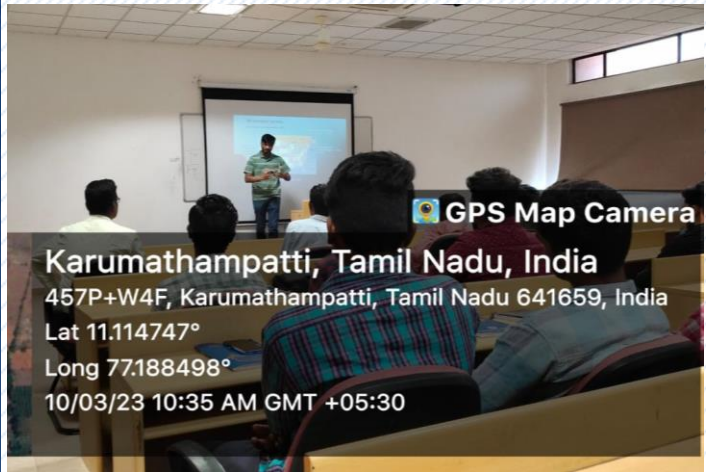
Arjun Saravanabhavan
 Process Engineer at Samsung
 Austin Semiconductor,
 Texas, United States

10 March 2023
 11:00 AM -12:00 PM

Seminar Hall

Exclusively for Mechanical Engineers

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JANSONS INSTITUTE OF TECHNOLOGY
 COIMBATORE, TAMILNADU

CONGRATULATES
 FACULTY MEMBERS & STUDENTS

PROJECTS SANCTIONED UNDER
STUDENT PROJECTS SCHEME 2022-2023
 TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

TNSCST

<p>Gesture interface for sterile browsing using AI tool</p> <p>Ms. R. Ashwini Assistant Professor, CSE</p> <p>Final Year CSE Students</p>	<p>A smart and secure oxygen enabled headgear for miners and industrial workers</p> <p>Mr.S.Karthikeyan Assistant Professor, ECE</p> <p>Final Year ECE Students</p>	<p>Design and new product development of grandbot for sustainable assistance to geriatrics</p> <p>Dr.M.Muthukumaran Professor & Head Mechanical</p>
<p>V. Sudharsan J. Sandeep</p>	<p>S. Balayogesh B. Vijayalakshmi</p>	<p>K.S. Kumara Guru N. Steepan</p>
<p>T. Madhan G.P. Narmathi</p>	<p>D. Dhaya Moorthi S. Swetha</p>	<p>A.K. Hemanathan Final Year Mechanical Students</p>



Faculty and students team of Department of Mechanical Engineering visited CODISSIA Defense Innovation and ATAL Incubation Centre (CDIIC) Coimbatore on March 22,2023.



Field Visit at Ammarun Foundry on 18.03.2023

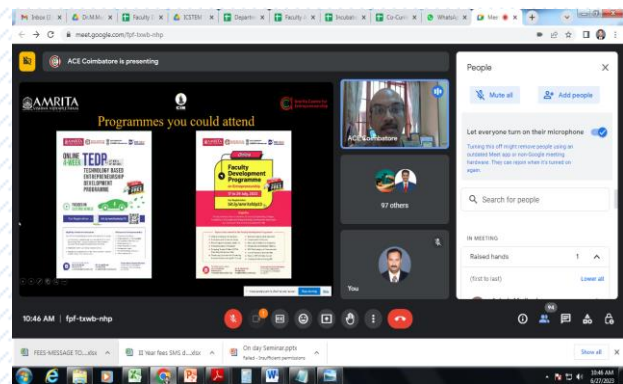


Jansons Institute of Technology positioned in the Band of 151-300 in the Innovation Category - NIRF India Rankings 2023.



Department of MECH in association with JIT IIC organizes One Day Seminar on "Incubation Opportunities for Students and Faculties - Early Stage Entrepreneurs" on 27th June 2023.

The poster is for a seminar organized by the Department of Mechanical Engineering in association with the JIT Institution's Innovation Council (JIT IIC). It features the Jansons Institute of Technology logo and accreditation details. The seminar is titled "One day Seminar" on "INCUBATION OPPORTUNITIES FOR STUDENTS & FACULTIES - EARLY STAGE ENTREPRENEURS" and is held in "ONLINE MODE". The speaker is Mr. Krishnan R, Head of the Amrita Centre for Entrepreneurship, Corporate & Industry Relations. The date is Tuesday, 27 June 2023, from 10:00 AM to 04:00 PM. Social media handles for JIT are listed at the bottom.



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Jansons Eco Club & ARCRA Club
organises
ART EXPO
in view of celebrating
WORLD WATER DAY
Explore your artistic creativity on the topic of
SAVE WATER SAVE EARTH

March 24
2k23
Friday

Submit your art to:
Faculty Coordinators
Mrs.L Agnes Preethi, ECO Club Coordinator
Dr.M.Raju, ARCRA Club Coordinator

Last date of Submission : 21.03.2023
Expo Venue : Drawing hall

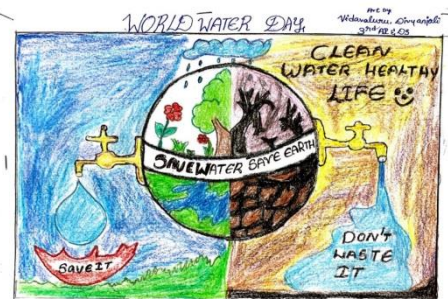
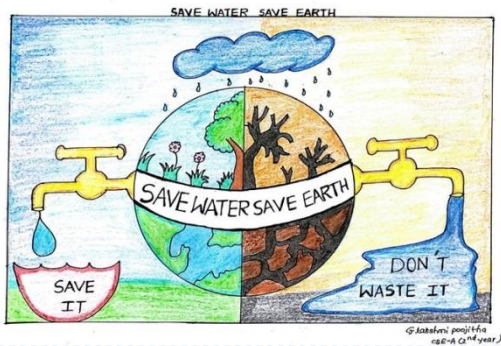
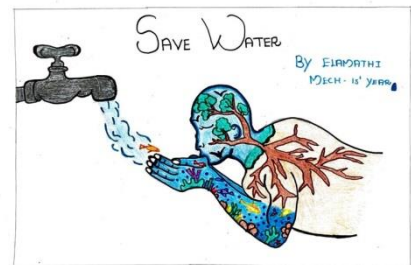
Student coordinator
E.Sarath Kumar, II Civil
☎ 7339502517
R Bharath, I CSE
☎ 8925635522

Register here

BE THE CHANGE YOU WANT TO SEE IN THE WORLD

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Hand in Hand, Let's Preserve Where and our MOTHER EARTH





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Congratulations !!

TEAM SHINI UNICORNS



winning prize money of **Rs. 50,000** and Development Cost of **Rs. 5,00,000** in **Onion Grand Challenge'22**
 organized by Department of Consumer Affrairs Government of India



Team Lead
Dr.M.M.Matheswaran
 ASP /Mech



Prize Rs. 25,000 Grant Rs. 75,000 Prize Rs. 50,000 Grant Rs. 5,00,000 Towards

Team Members



Mr.S.Vignesh
Final Year Mech



Ms.M.Julia
Final Year Mech



Mr.R.Thanusu
Final Year Mech



Mr.G.Subash
Final Year Mech

Congratulations!...

Shini Unicorns

Winning Rs. 25,000 Prize money from the Department of Consumer Affairs in Grand Onion Challenge (Round - 1 : idea to PoC)



DR. M.M. MATHESWARAN
 Team Leader
 Associate Professor/MECHANICAL



R. THANUSU
IV Year Mechanical



S. VIGNESH
IV Year Mechanical



M. JULIA
IV Year Mechanical



G.SUBASH
IV Year Mechanical

JIT IIC in association with National Entrepreneurship Network organizes "Faculty Orientation Program for IGNITE Program" from 07th to 09th June 2023.

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INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)
JIT - IIC
JIT EDC
WADHWANI FOUNDATION

JIT Institution's Innovation Council (JIT IIC)
in association with
National Entrepreneurship Network (NEN)
organizes a
FACULTY ORIENTATION PROGRAM
for
IGNITE PROGRAM

Dr. R.Sujatha
Principal-Entrepreneur Education,
Wadhvani Foundation

Mr. Naved Ahmed
Sr. Regional Manager- NEN (South),
Wadhvani Foundation

June 07 - 09, 2023 09.30 AM - 04.00 PM SEMINAR HALL II

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