



MOHAMED SATHAK AJ COLLEGE OF ENGINEERING

(Approved by All India Council for Technical Education,
New Delhi and affiliated to Anna University, Chennai)
Siruseri IT Park, Egattur, Chennai - 603 103

TECHNOLOGY CENTER

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PRINCIPAL

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Technology Centres

Mohamed Sathak A.J. College of Engineering (MSAJCE) was established with the ambition to become an eminent institute for higher education and research through innovative teaching-learning and sustainable practices to meet the industrial and societal needs.

To fulfil this vision, we provide holistic, multi-disciplinary skill-based education in the latest cutting edge technologies and also inculcate innovation and entrepreneurial abilities, so that the students are well groomed to face the challenges in the industry and the society through our technology centres.

To have a focussed and stress-free involvement of students both in academics and training, the activities are split into two separate sessions such as Forenoon – Academics only and Afternoon – Training & Practices, within the college regular working hours.

MSAJCE encourages students towards research and innovation practices by involving them in various hackathons and consultancy works. The following are some of the salient features of this distinctive area.

Salient features:

- Skill-based training provides holistic education to develop skills, knowledge and values through well-structured curriculum and hands-on training within the college working hours
- Students are given an opportunity to work on live industry projects/consultancy works
- Make students readily acceptable by the industry and also to become an entrepreneur
- Provides inclusive technical education so that a deserving student is not denied an opportunity solely on socio economic constraints
- Provides prerequisite training for building and developing competencies for the placement.
- Students have the flexibility to choose the courses based on their interest
- Students had participated in many competitions and hackathons and had also secured mentoring support and funding
- Students have designed and developed innovative products with the skills gained from these trainings,


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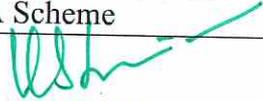


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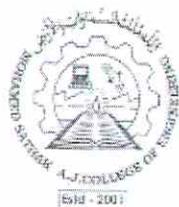
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List of Technology Centre:

S.NO	NAME OF THE CENTRE	COURSES / CERTIFICATIONS OFFERED
CSE & IT		
1	BOT Lab & RPA Centre supported by Automation Anywhere	Automation Anywhere Certified Essential RPA Professional Automation Anywhere Certified Advanced RPA Professional Automation Anywhere Certified Master RPA Professional
2	Network Academy supported by CISCO & Palo Alto	Network Essentials & Mobility Fundamentals CCNA: Introduction to Networks CCNA: Switching, Routing, and Wireless Essentials CCNA: Enterprise Networking, Security and Automation Palo Alto Networks Cyber Security Essentials I & II Palo Alto Networks Gateway I & II Palo Alto Networks Cyber Security Foundation
3	Code Thantra - Coding Learning Centre	Python programming Java Course (Core & Advanced) C / C++ Programming Data Structures using C
4	AI & ML Centre	Artificial Intelligence and ML - Approved under AICTE-KARMA Scheme Hadoop - Big Data Analytics Selenium Testing tool
5	Mobile App & Web Development	Android Mobile Application Development Website Development AWS Certified Cloud Practitioner
6	Centre for Gaming, AR & VR	Gaming using Unity Augmented Reality Fundamentals Virtual Reality Fundamentals
7	Centre for IT Essentials.	Computer Hardware & Networking- Approved under AICTE-KARMA Scheme
MECH & CIVIL		
1	Centre for 3D Printing and Additive Manufacturing	3D Rapid Prototype Printing- Approved under AICTE-KARMA Scheme


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M. MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
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2	Centre for CAE	Computer Aided Engineering Drawing Computer Aided Design - CATIA Computer Aided Simulation - Hyper Works
3	Centre for CAM	Computer Aided Manufacturing- CNC Milling & Turning
4	Centre for Industrial Robotics	Industrial Robotics
5	Centre for Building Information Modelling	Revit Architecture STAAD.Pro Software Geographic Information System Primavera & Project Planning Management
6	APJ Abdul Kalam Innovation Centre - Supported by Institute Innovation Council - MOE, Govt. of India	NA
7	Centre for NDT	Non Destructive Testing
ECE & EEE		
1	Lab View Academy - Associate with National Instruments	Certified Lab-view Associate Developer(CLAD)
2	E-Yantra Lab - Supported by IIT Bombay	IoT applications Advanced Embedded Design (PIC/ ARM / IoT) Embedded Systems and Robotics
3	Godrej Disha Skill Development Centre	Refrigeration and Air Conditioning- Approved under AICTE-KARMA Scheme
4	E - Mobility Centre	Hybrid / Electric Vehicle Engineering.
5	Centre for Solar Systems - Associated with YNY Enterprise Pvt Ltd, Ahmadabad	Solar cell manufacturing
6	Centre for UAV/Drone - Supported by Jet Aerospace Aviation Research Centre	Drone Development
7	BOSCH Industry Institute Collaboration	Skill Entrepreneurship Nation Building Attitudes & Behaviours Future Human Competencies Social Responsibility

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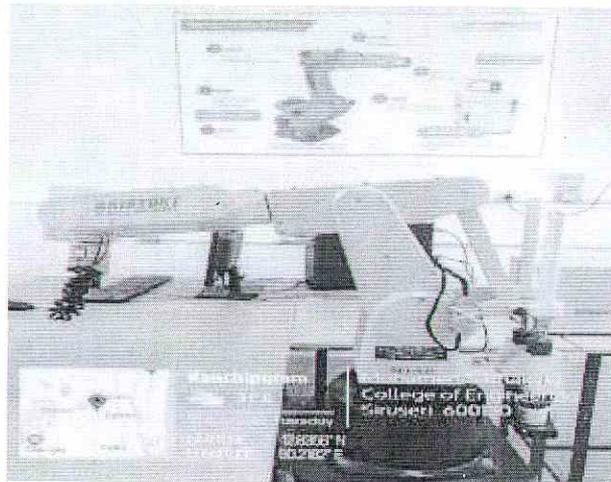
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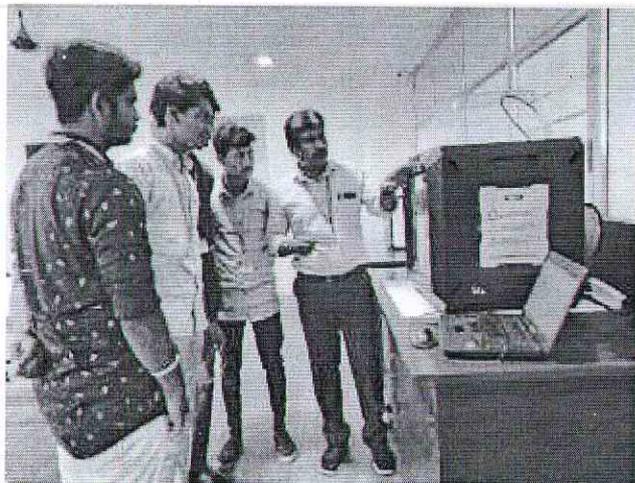
Photos of Technology Centres



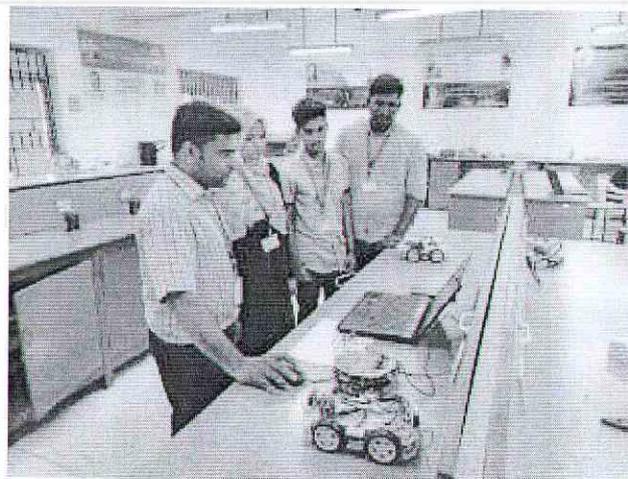
Technology Centre for Drone



**Technology Centre for Industrial
Robot**



Technology Centre for 3D Printing



Technology Centre for IOT

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Dr.A P J Abdul Kalam Innovation Centre

PHOTOS DURING COE CLASSES

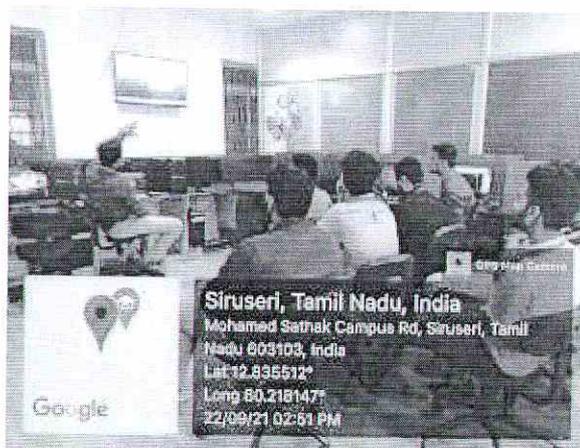
Multi Body Dynamics Course

Date: 15.09.2021

Technology Centre

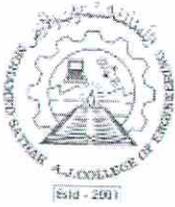
Course: Multi Body Dynamics

Topic: Spring Mass Damping System



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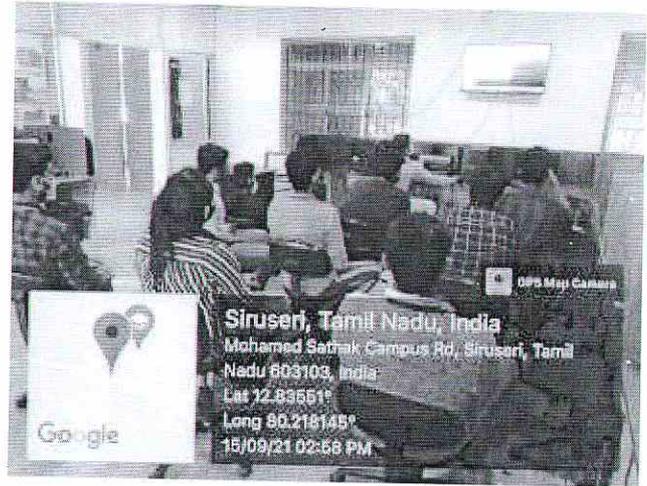
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Date: 22.09.2021

Technology Centre

Course: Multi Body Dynamics

Topic: Projectile Motion Of Stone



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List of Competition Participated:

Due to the training availed from the technology centre students at MSAJCE discover an extraordinary ecology to participate in research-oriented contests such as IIC NIC, Smart India Hackathon, and others.

- IITB-ISRO-AICTE jointly organized Mapathon competition 2020. One of our faculty team selected among 5228 participating team and placed among the top 100 winners list. They developed a map for identifying the Insects in Agriculture land of Karnataka.
- SWADESHI Microprocessor Challenge 2020 is organized by MeitY at C-DAC Govt of India, IIT Madras and IIT Bombay. The competition is held under “#Aatma Nirbhar Bharat Abhiyan and uses Sakthi processors” developed by IIT Madras and Vega processor developed by C-DAC to develop Smart Device deployed in different domains, including Electronics for public utility services such as Surveillance,
- Transportation, Environmental condition monitoring, to commodity appliances like smart fans/ locks/ washing machines. Among the 6000 participating team’s one of our student team selected for the semifinals and placed among the top 100. The team was “awarded with 1 lakh and FPGA board” to develop the proof of concept.
- IIC National Innovation Contest is an initiative of Ministry of Education (MOE) Innovation Unit organized the IIC 2020 National Innovation Competition. In all, 5 teams from our institute competed in IIC-NIC, 2020, three teams were selected to the 3rd round of competition among 9989 participating teams. The selected ideas are “Bore well Rescue System”, “Solar Powered Sewage Cleaning Machine”, and “Base isolation for buildings”., and one team being selected for the final round as a finalist “Bore well Rescue System”.
- One student team & One faculty team were selected for the finals of INSTINCT-IntelliSmart’s Innovation Challenge and Hackathon for their project proposal on “Non-connectivity plug and play smart energy monitoring & controlling using IOT” and “IOT Based Smart Water and Home Automation System with Alexa”.


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- Smart India Hackathon (SIH) 2020 is organized by the “Ministry of Education” and the All India Council for Technical Education (AICTE). One of our student team from MSAJCE was place one of the top 5 teams selected for the Software - Web App development domain among 57/344 participating teams in SIH 2020. The team developed an “Online platform for mentoring Startups for the Department of Information Technology and Bio Technology”, for Government of Karnataka.
- Various teams have participated in Toyathon Hackathon organized by AICTE , Spices Scheme Proposal for RIOT Club Submitted in AICTE , YUKTHI 2.0, UBA –VIBHA Hackathon, Robotics Competition by IIT Hyderabad and India International Science Festival 2020, etc and bring laurels to our institution.

Some of our achievement’s certificates are listed below,



Certificate of Appreciation IIC


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Swadeshi Microprocessor Challenge 2020 – Certificate of Participation as Semi Final



Swadeshi Microprocessor Challenge 2020 – Certificate of Participation as Semi Final

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Organized by:

Certificate of PARTICIPATION

This Certificate is awarded to

Hamza

of team HELLFIRES

for participating in

"Smart India Hackathon 2020"

SMART INDIA HACKATHON 2020

SOFTWARE EDITION

Grand Finale
1st, 2nd & 3rd Aug. 2020

Dr. Anil K. Srinivasan
Chairman, IITB
Member, Higher Education
Smart India Hackathon 2020

Dr. Akshay Jee
CEO, IITB
Fighting Covid-19
Smart India Hackathon 2020

Dr. Anand Deshpande
Member of All India Council for
Technical Education, Government
of India

Sh. Anil Khare
Secretary, Higher Education
Ministry of Education
Government of India

Partners:

Smart India Hackathon 2020 – Certificate of Participation

IITB-ISRO-AICTE Mapathon
Certificate of Recognition

This is to certify that

Mr./Ms. K. Vairaperumal

of team **MAPATHON3500** is recognized as a **WINNER**
in the **IITB-ISRO-AICTE Mapathon**, an initiative of the **FOSSEE**
(Free/Libre and Open Source Software in Education) Project, **IIT Bombay**
in association with **ISRO** (Indian Space Research Organisation)
and **AICTE** (All India Council for Technical Education).

The Mapathon was held between 7 Dec. to 22 Dec. 2020.

Prof. Kankan Mazumdar
Principal, IIT Bombay

Mr. Shantanu Bhatawdekar
Principal, IIT Bombay
and IITB, Government of India, IITB

Prof. Pannan Chinniasamy
Former Head, Research and Design
(AICTE), Govt. of India

This is a computer generated certificate and requires no signature. To verify, scan the QR code or visit: <https://fossee.in/certificate/verify>
The FOSSEE project is funded by the National Mission on Education through ICT, Ministry of Education (MHE), Govt. of India.

IITB-ISRO-AICTE Mapathon Winner Certificate

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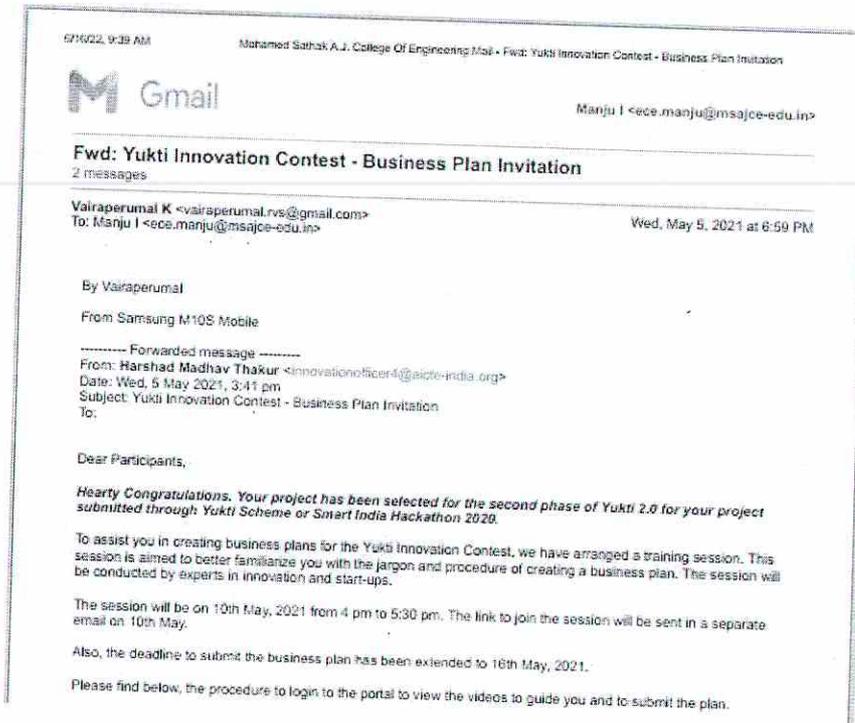


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Synfig Studio 2D Animation Hackathon



Yukti 2.0 – Selected for Second Phase


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