



MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)



Ingenuity

A COMPENDIUM ON STUDENT CLUBS

MIT, Manipal

2022

REVELS

National Level Cultural Fest at MIT, Manipal



Message



Covid 19 pandemic and its unprecedented, unexpected consequences have tested our human endurance and ingenuity at its core and MIT was no exception. It is with great pride, enthusiasm and anticipation that MIT proclaims that it has stood up to the challenges posed by pandemic with due support, recognition and appreciation from its students, parents, and entire staff who worked tirelessly to overcome these unforeseen times. MIT is a hub of students coming from heterogeneous class, creed, cultures and nationalities. It is a multi-cultural Institute with a strong foundation of experiential and holistic learning for its students. At MIT students' learning curve is augmented by miscellaneous extra-curricular activities which has a positive impact on their emotional, intellectual, social and interpersonal development.

At MIT an enormous amount of work is done by the student council which coordinates and is responsible for the functioning of approximately 38 technical clubs, 20 major student projects and 32 non-technical clubs. Their effort is reflected in the event calendar which is drawn at the beginning of the year. The highlight of this calendar are two major fests ie technical fest – Techtatva held in October and a cultural fest – Revels in March which is managed entirely by students. The entire show of these distinct clubs is run by the students with the help of faculty advisor. By working together students learn to negotiate, communicate, manage conflicts and most importantly break class, creed and cultural barriers to work as one entity. Club activities help them to execute and understand the significance of critical thinking skills, time management, academic and intellectual competence. Working outside the classroom with diverse groups of individual helps them to gain self confidence and appreciation for each other's differences and similarities. These clubs and extracurricular activities encourage transformative engagements and strengthening relationship between students as well as with MIT and communities at large. Transformation and change are the key words that will help us to steer forward in our pursuit of excellence not only in academics but in personal lives too. The hybrid work environment, innovative learning and teaching and community engagement will be provided by MIT to its students so that they become the solution provider to the changing world.

This book showcases the ingenuity of the students' activities at MIT and with sincere hope that these activities will provide insightful and stimulating platform to young engineers and technocrats so that they will lead the way to improve lives and be the change makers of tomorrow.

Commander (Dr.) Anil Rana
Director, MIT

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ACM Manipal Student Chapter

Domain

Student Chapter

Description

ACM Manipal is the official student chapter of the Association for Computing Machinery (ACM) in MAHE. ACM is the world's largest scientific and educational computing society. The Manipal chapter conducts various kinds of events to further the CS culture on campus. This year, the club organised talks by industry professionals, webinars by alumni, several coding contests, and tutorials by senior students.

Faculty advisor

Dr. Shrikant Prabhu, Dept. of Computer Science Engineering

Contact number

94484 84506

E-mail

srikanth.prabhu@manipal.edu

Major event

A Workshop on Introduction to Reinforcement Learning



Official Club Email

acm.manipal@gmail.com

ACM-W Manipal

Domain

ACM-W Student Chapter

Description

ACM-W supports, celebrates, and advocates internationally for the full engagement of women in all aspects of computer science. The Manipal chapter of ACM-W wishes to carry forward the vision of ACM-W in establishing a society that not only motivates young girls to become zealous programmers but also provides them with adequate resources and the right mentor-ship at every step in their path. We are a research-centric group, striving at inclusion and domain-depth.

Faculty advisor

Dr. Srikanth Prabhu, Dept. of Computer Science Engineering

Contact number

94484 84506

E-mail

srikanth.prabhu@manipal.edu

Major event

Tech-o-talk



ACM-W presents

TECH-O-TALK

From Research to GSoC and Hackathons,
get guidance in the field of your choice.

19 August 2019
6PM onwards
NLH 404

Don't Judge a Program by its Code

Ullas Appranji
PhD Researcher,
Indian Institute of Science
6:00 - 7:00 PM

Talking machines, killing machines and life in between

Dwarakanath Gnaneshwar
GSoC 19' with DBpedia
AI Researcher
7:10 - 7:40 PM

Bumping Down the Hackathon Road

Ananya Gupta
Microsoft Intern '19 and PPO,
Runner's up in code.fun.do Manipal 2018
7:40 - 8:10 PM

Akshatha: 9535399223 Harshita: 9874411855



Official Club Email

acmw.manipal@gmail.com



AIESEC in M.A.H.E

Domain

Technical and Cultural

Description

AIESEC is a non-governmental not-for-profit organisation in consultative status with the United Nations Economic and Social Council (ECOSOC), affiliated with the UN DPI, member of ICMYO, and is recognized by UNESCO. AIESEC is a global platform for young people to develop their leadership potential through international internships and volunteer opportunities. Founded in 1948, AIESEC is an organization entirely run by youth for youth.

Faculty advisor

Dr Karunakar Kotegar, Dept. of Data Science and Computer Applications

Contact number

9902115271

E-mail

karunakar.ak@manipal.edu

Major Achievement

Received awards for being the best Local Committee in both Outgoing and Incoming exchanges in the Asia Pacific Region



Official Club Email

incoming.aiesec@manipal.edu

American Society of Civil Engineers, Manipal Chapter



Domain

Student Chapter

Objectives

ASCE, Manipal Chapter is a small constituent of this international organisation in Manipal. We officially became a student chapter and got out of our probation period on April 30th, 2019. However, our focus has always been to bring people from different disciplines under one roof to engender a flow and exchange of thoughts and ideas through various events, workshops and guest lectures.

We at ASCE-Manipal Chapter aim to provide industry and professional inclined outlook of Civil Engineering to the students of MIT Manipal. We organize various Civil Engineering themed activities and field visits. Our Programme also includes organizing various workshops to get the students more knowledge about the software and computer related factors of Civil Engineering

Faculty advisor

Lt. Poornachandra Pandit, Dept. of Civil Engineering

Contact number

9481228498

E-mail

pc.pandit@manipal.edu

Major Event

A major event of ASCE was Raise Your Bid, held on 5th Feb 2020. Eleven teams participated in our event - "Raise - Your - Bid". From bidding for a plot to planning the construction to jotting down the finance and profits of it in just over an hour, the event escalated from each team having 100cr in pocket and barren lands sold virtually to having resorts, hospitals, convention centres, amusement parks and a lot more with every person putting in the craziest yet practical thoughts and ideas to make this event a success.

i) Raise your Bid ii) Floating Canoe



Official Club Email

asce.manipal@gmail.com



Apple Developer's Group

Domain

Technical

Description

Unlike any other club, we at ADG are small in terms of number of people which allows everybody to be closely associated with each other and imbibes a sense of responsibility and a feeling of recognition within each of our developers. Our small size allows us to function like a family where it is one for all and all for one.

We express a primary agenda to educate people about the Apple ecosystem and train them with the Swift language. Besides the Swift platform, we also feel pride in recognizing our highly skilled Android, ML and Web-Dev coders. We strive to offer the best in class mentorship for those who have a zeal to succeed and passion to develop.

Our achievements boast of several in-house and out-stationed projects which include but not limited to solutions for FOA that helped save resources worth more than Rs. 1 Lakh, a carefully devised and highly refined system for the faculty for assignment of LORs to the meritorious.

Concluding it all, ADG is a society that is sure to provide aspiring developers a conducive environment.

Faculty advisor

Dr. Arun Shanbhag, Chief Innovation Officer

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Major event

1. Conducted iOS Dev Workshop
2. Worked on iOS & Android App for MIT Faculty



Official Club Email

adgmanipal@gmail.com

American Society of Mechanical Engineers, Manipal Chapter



Domain

Technical

Description

The club aims to train engineers from all branches and not just mechanical branches to work on different aspects of their existing skills and various competitions so they develop a wider skill set. The aim is to develop a better understanding of any concept that the members might be interested in and complete their tenure with utmost knowledge and skills. Participating in maximum number of competitions so we can provide maximum practical competitiveness and application of taught skills. Being a technical club, we explore management functions through our internal and external workshops. Offering a friendly aura to support and nurture our members also holds among the objectives of ASME Manipal Chapter. Taking pride in offering an international platform for practically free of cost, we lead in a global outreach and have been securing among the top ranks for consecutively 2 years.

Faculty advisor

Dr. Rajesh Nayak, Dept. of Mechanical & Industrial Engineering

Contact number **E-mail**

9964381237

nayak.raj@manipal.edu

Major event

Manufactured the bot for the Techfest at IIT Bombay during the lockdown, which completed the entire track. We also pure coded a website during the pandemic and had about 35,000 impressions for it. (asmemanipal.org/)

We also take part in competitions like IAM3D, ReBoat and Old Guard Oral Presentation.



Official Club Email

asme.mit.manipal@gmail.com

Biomedical Engineering Society of India Manipal Chapter



Domain

Student Chapter

Description

Our Mission:

To serve as a platform for discussion and problem solving in the field of Healthcare and Engineering in Medicine in India.

Our Vision:

To foster and bolster a healthy attitude among engineering students across all branches towards biology and healthcare in order to bridge the gap between medicine and engineering. Our aim is to spread awareness towards the broad applications of all engineering fields towards the betterment of medical technology.

Faculty advisor

Lawrence D. Almeida, Dept. of Biomedical Engineering

Contact number

9448911493

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ld.almeida@manipal.edu

Major Event

National Symposium on Biomaterials, Drug Delivery and Regenerative Engineering

Hosted on November 2nd and 3rd, 2019.



Official Club Email

bmesi0902.mc@gmail.com



Developer Student Clubs

Domain

Technical Club

Description

Developer Student Clubs are university-based community groups for students interested in Google developer technologies. They are places for students to connect: Meet other students on campus interested in developer technologies. All are welcome, including those with diverse backgrounds and different majors; learn: Learn about a wide range of technical topics where new skills are gained through hands-on workshops, in-person training and project building activities; and grow: Apply your new learnings and connections to build great solutions for local problems. Advance your skills, career and network. Give back to your community by helping others learn as well

Faculty advisor

Chethan Sharma, Dept. of Information & Communication Technology

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Major event

DevFest 19' as part of the global devfest season by google



Official Club Email

hello@dscmit.com



Economics and Finance Society of Manipal

Domain

Technical

Description

Economics and Finance Society of Manipal aims to flourish as a group that helps students to develop an understanding of economics and finance – a science which is more of a necessity than an attribute in today's world. ESoM aspires to provide a platform for the keen minds to showcase their knowledge and adroitness in these fields.

We strive to promote the economics and finance culture at the campus through various events, collaborations, case studies and focus groups so as to groom our skills and knowledge.

Faculty advisor

Dr. B Gopalkrishna, Dept. of Humanities & Management

Contact number

99800 97242

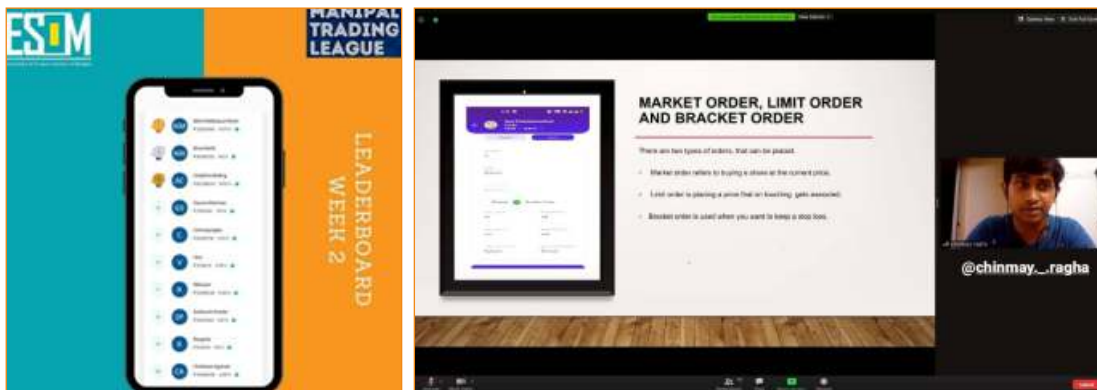
E-mail

gopalkrishna.b@manipal.edu

Major event

The Economics and Finance Society of Manipal (ESoM) organized the Manipal Trading League, a first of its kind, pan-India stock trading simulation event where we hosted over 250 people. It spanned three action-packed weeks, followed live trends of the NSE, and gave the contestants the same adrenaline rush investors experience in real life.

To deepen the learning experience, ESoM also delivered a session on the basics of the stock market to help people understand how the market works. The participants ended the competition well equipped with key strategies that could be used for real-time trading.



Official Club Email

esommanipal@gmail.com

IAESTE

IAESTE (International Association for the Exchange of Students for Technical Experience) LC MANIPAL



Domain

Technical

Description

The objective of IAESTE LC Manipal is to provide international, high-quality, paid, technical internships to our members, that are highly relevant to their fields of study. Facilitating a global exchange of cultures is a part of IAESTE's mission statement, with trainees meeting people from all over the globe, heightening cooperation, and understanding between cultures. Receiving interns from around the world, they are given a glimpse into Indian culture, all while developing themselves professionally, in their respective career paths. Through IAESTE, one can work in fields that are highly innovative, relevant and expanding, discover the history and culture of a country, and get lost in the experience- growing holistically and developing a truly global mindset.

Faculty advisor

Dr. Karunakar A Kotegar, Dept. of Data Science and Computer Applications

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E-mail

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Major event

LC Linz webinar, Remote SRO, Nomination Seminar with LC



Official Club Email

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IE Aerospace Students' Chapter Manipal



Domain

Technical

Description

IE Aerospace is a students' chapter affiliated to the institution of engineers, India. Our mission is to spread awareness about the booming field of aerospace engineering. As part of our internal workings we conduct multiple workshops for softwares such as catia, ansys and matlab. These softwares provide us a platform to study and virtually visualize our designs without having to go through the painstaking process of building real life models. Our external events comprise various fun and interactive competitions which include bottle rockets, glider design, wing building, etc. IE Aerospace is open to all branches and we hope to share our love of aircrafts with all those who join us.

Faculty advisor

Mr. Yogeesha Pai, Dept. of Aeronautical and Automobile Engineering

Contact number

99169 53709

E-mail

yogish.pai@manipal.edu

Major event

Drones: An Aerial Marvel (20-09-2019), Space Talks (05-02-2020), Boomerangs (11-03-2020 & 12-03-2020)



Official Club Email

ieaerospace.manipal@gmail.com



IEBT (Institute of Engineers - Biotechnology, Manipal Chapter)

Domain

Student Chapter

Description

The Institute of Engineers-Biotechnology (IEBT), Manipal chapter is a premier society of innovative engineers. It provides a platform to the students to get a better understanding of the working world in the diverse areas of biotechnology. The events conducted help everyone gain more professional knowledge and also help them develop leadership and management skills. Events such as the national symposium and seminars provide better insight about recent research and upcoming technologies and help them improve their presentation skills. They also play an important role in helping students build a better and stronger network with their peers and other pioneers in the field.

Faculty advisor

Dr. Subbalaxmi S, Dept. of Biotechnology

Contact number

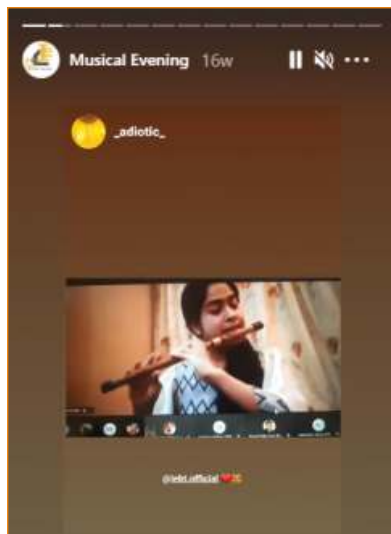
9916809374

E-mail

subbalaxmi.s@manipal.edu

Major event

Online event - "Musical Evening" via MS-Teams. Both the faculties and students are exhibiting their musical talents at the event | Date: 21st March 2021.



Official Club Email

iebt.official20@gmail.com



I.E. CIVIL

Domain

Technical | Student Chapter

Description

It aims to advance science and practice in the field of civil engineering through participation in seminars, workshops and other events organized by us. The objective is to provide platform to the students to showcase their talent and come up with events and opportunities to gain knowledge and expertise in the field.

Faculty advisor

Arun Kumar Y.M. Dept. of Civil Engineering

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Major event

Constructure is our category in Techtatva. It consisted of 4 events

I. CONKREATION



II. HYDRAULIC BRIDGE



IV. M.Y.O.C.



III. DOME-I-NATION



Official Club Email

iecivilmahe@gmail.com



IECSE

Domain

Technical

Description

IECSE Manipal aims at spreading technical knowledge and uplifting the overall computer science culture among students. It strives to keep its members updated with the latest happenings in the world of computers, providing students with everything from information about gadgets to knowledge of various programming languages, software and other latest technological developments. We deliver high quality events like workshops and competitions in various departments such as web development, graphic design, machine learning and competitive programming.

Faculty advisor

Giridhar N Shakarad, Dept. of Computer Science Engineering

Contact number

9448348243

E-mail

giri.shakarad@manipal.edu

Major Event

Prometheus is the official fest of IECSE Manipal, which had 6 events, technical and non-technical, which saw a total of 1400+ participants. It was held completely online this year due to the ongoing pandemic.



Genesis - This is a member only event held in the odd semester, which spans across 3 days.

Official Club Email

hello@iecsemanipal.com



IE E&E Students' Chapter Manipal

Domain

Technical | Student Chapter

Description

IE-E&E is a student chapter of the Electrical and Electronics department of the college, aimed to develop more and more technical skills. The club organises numerous events such as technical paper presentations, quizzes, guest lectures, industrial tours, publishes its own semi-annual newsletter and has an event of its own named 'Electrific' in Techtatva. Our main objective is to promote technical awareness among engineering students and give them a platform where they can freely express their technical knowledge while learning at the same time.

To achieve our goal of excellence in the field of technology, we are trying our best to provide base for those zealous and hardworking students so that they can grow, nurture, and explore the opportunities.

Faculty advisor

Dr. Lakshman Rao S. Paragond, Dept. of Electrical and Electronics Engineering

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E-mail

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Major event

Visit to Sharavati Hydrel-power plant [29/02/2020]



Official Club Email

ieenmanipalexecutive@gmail.com

IE-E&C The Manipal Chapter

Domain

Technical | Student Chapter

Description

IE-E&C is the official Students' Chapter of Electronics and Communication which goes beyond the theories into practical applications. We aspire to enhance the technical understanding of every individual who's interested in areas concerning Electronics & Communication by conducting various workshop, events, and talks throughout the year.

Activities involve:

- I. Organizing various technical workshops and events.
- II. Conducting academic workshops for members.
- III. Providing a platform for students to make their own projects.

Faculty advisor

Dr. G. Subramanya Nayak, Dept. of Electronics & Communication Engineering

Contact number

9448300922

E-mail

gs.nayak@manipal.edu

Major event

"CRUCIBLE"



Official Club Email

ieenc1718@gmail.com



IEEE Student Branch Manipal

Domain

Technical | Student Chapter

Description

IEEE SBM is the Manipal chapter of the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. At the Manipal Chapter, we uphold the mission and vision of IEEE through technical activities dedicated towards the student community throughout the academic year.

Faculty advisor

Dr. Pallavi R Mane, Dept. of Electronics & Communication Engineering

Contact number

8618639621

E-mail

palvi.mane@manipal.edu

Major Achievement

- Outstanding (small) Student Branch Award (Bangalore Section): IEEE Bangalore Section recognised IEEE SBM for the number of events(technical and administrative) that we conducted. There were around 65 more student branches in the running for the award.
- Fourth place in 'Membership Development Challenge' under IEEE Bangalore Section "Volunteer-Lead-Achieve Mission 2020": IEEE SBM managed to boost the number of IEEE members in Manipal by a great number and received an award for the same.



Official Club Email

contactus@ieeemanipal.com



IE Mechanical Students' Chapter Manipal

Domain

Technical | Student Chapter

Description

IE Mechanical is the official and the oldest Mechanical Club of Manipal which conducts various types of events throughout the academic year, namely the AutoCAD Workshop, Imperium, Swacch Bharat Events, Placement Talks etc. The club aims to impart practical knowledge to its members and participants through these enticing events. It also handles the Category – Mechanize in TechTatva every year. Imperium is the club's very own Annual Technical Week which consists of 4 competitions related to Mechanical Engineering fought across the duration of the week for the winners to take home cash prizes and bragging rights. The AutoCAD workshop is organized solely for the Freshers just before their End Semester Lab Exams (EG) for them to learn and practice the AutoCAD software which seems a bit daunting at the start. Placement Talks have been organized time and time again to get the students ready for the placement sessions.

Faculty advisor

Dr. Krishna Murthy, Dept. of Mechanical & Industrial Engineering

Contact number

6362849169, 9448983195

E-mail

krishna.murthy@manipal.edu

Major event

AutoCAD Workshop 2019



Official Club Email

iemech_board@outlook.com

IE Mechatronics Students' Chapter, Manipal



Domain

Technical | Student Chapter

Objectives

- To provide practical experience on Robotics and Mechatronics.
- To organize application based events and workshops that challenge the skill set of students in a wide variety of domains.
- To ensure that students learn to apply concepts and skills from different branches, not just one.
- Make engineering fun by integrating technical events with interesting challenges and various competitions.

Faculty advisor

Shashank Pansari, Dept. of Mechatronics Engineering

Contact number

9901641325

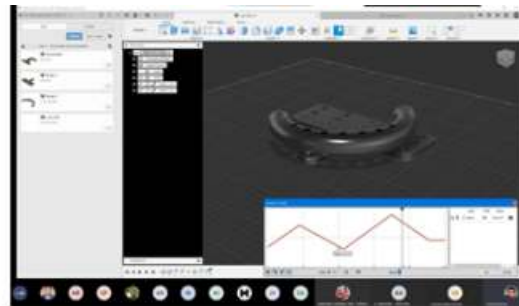
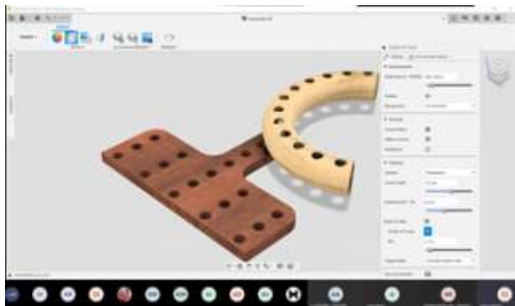
E-mail

shashank.pansari@manipal.edu

Major Event

CAD with Fusion 360: Beginner

The Autodesk Fusion 360 workshop that we conducted was a kick-starter for beginners and experienced CAD enthusiasts, with a work-as-you-go style of learning that covers the basics of 3D modelling, part inspection, material selection and all the essentials to make a mechanical design from scratch.



Official Club Email

convener.iemechatronics@gmail.com



Indian Institute of Chemical Engineers

Domain

Technical | Student Chapter

Description

IIChE Manipal is a student chapter under the Indian Institute of Chemical Engineers. It is a platform which can be used by the students to become an active member of IIChE and be closely related to it; even before completing their academics. Handled and managed by the student body, student chapter creates a space where burgeoning chemical engineers can share and gain ample amount of knowledge. It is meant for creating a sense of respect, belongingness, team spirit and to inculcate professionalism within students. Our student chapter runs with a mission of providing best possible opportunities for all its members to learn and grow and, with a vision of creating crackerjack chemical engineers.

Faculty advisor

Dr. Gautham Jeppu, Dept. of Chemical Engineering

Contact number E-mail

8762213942

gautham.jeppu@manipal.edu

Major event

Placement talk was conducted by the Board for all the 2nd and 3rd year students of chemical engineering department. 4th year seniors namely Ananya Bedekar, Shashank Rao, Mukund Bhattad, Ankita Paul, Soumya Varma and Sudarshan Bajaj were the guest speakers for the placement talk. The talk was aimed at educating the students about internships and placements. The speakers guided all the students and briefly spoke regarding how to go about applying for internships, applying for placements, preparing for interviews, and much more. The lecture was followed by a question-and-answer session. The talk was attended by 80 chemical engineering students.

Date: 1st MAY, 2021, Saturday

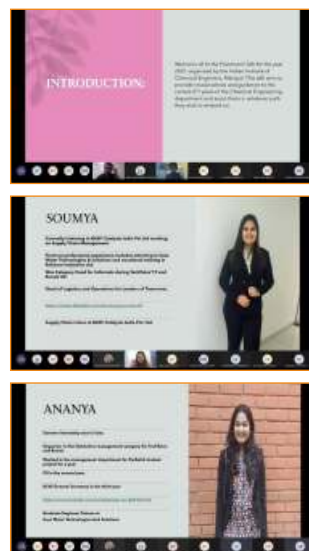
Guest speakers graced the event with their presence and enlightened us all with their experiential learnings.

Following were the Guest Speakers:

1. Ananya Bedekar - Graduate Engineer Trainee at Suez Water Technologies and Solutions.
2. Shashank Rao - Senior Executive at SRF Limited
3. Sudarshan Bajaj - Business Development Executive at Verzeo
4. Soumya Varma - Supply Chain Intern at BASF Catalysts India Pvt. Ltd.
5. Mukund Bhattad - Project Intern at BASF India Limited
6. Ankita Paul - Research Intern at UNSW, Sydney placed as Consultant at Deloitte India.

Official Club Email

iicheboard@gmail.com





International Organization of Software Developers - Manipal

Domain

Technical

Objectives

Unlike any other club, we at IOSD mainly focuses around few things and is working towards fulfilling objectives that is

- Organises hackathons
- Internship Fair
- IOSD Summer of Code
- IOSD Resource Portal (Online lectures, E-books, IDE for practice, challenge and interview etc.)
- Build products solving real life challenges.
- Concluding it all, IOSD is a society that is sure to provide aspiring developers a conducive environment.

Faculty advisor

Roshan David Jathanna, Dept. of Computer Science & Engineering

Contact number

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roshan.jathanna@manipal.edu

Major event

Organizing a major tech talk by two of famous industry experts i.e.

1. Tanay Pratap, Software Engineer, Microsoft
2. Miri Rodriguez, Global Head internships, Microsoft

Followed by a workshop on web dev and git.



Official Club Email

iosdmanipal@gmail.com

International Society of Automation (ISA), Manipal



Manipal Institute of Technology
Student Section

Domain

Technical | Student Chapter

Description

ISA advances technical competence by connecting the automation community to achieve industrial excellence. The organisation develops widely used global standards; certifies industry professionals; provides education and training; publishes books and technical articles; hosts conferences and exhibits; and provides networking and career development programs for its members and customers around the world.

As a Student Section, ISA Manipal brings this international vision to the students, and aims to bridge the gap between classroom learning and field application, by allowing student members to utilise the plethora of ISA resources to widen their understanding and develop themselves to become competent, future-ready engineers that will lead the industry of tomorrow.

Faculty advisor

D. A. P. Prabhakar, Dept. of Mechatronics Engineering

Contact number E-mail

95732 60485

pavan.prabhakar@manipal.edu

Major event

ISA Manipal, focuses mainly on the tech event called E-YANTRA organized by IIT-Bombay which happens in the month of August and September. Members from all technical sub-systems team up and work on the problem statement to arrive at the most accurate, apt solution for the given problem.

INTRODUCTION TO PROJECT FIEPER (Field Operator Robot) is an Operations Assistive Robot built to carry out various tasks whilst deployed in process industries in hazardous environments, where human intervention may prove harmful to life and safety. The aim of Project FIEPER (being done under ISA-ACARD) is to take this abstract idea to its logical conclusion, thereby setting the goal of working towards the end-to-end design, prototyping and final implementation of a fully autonomous bipedal humanoid robot that can replace human workers in such dangerous environments. Several institutions are participating and throwing up opportunities for new entrepreneurs to take up the technologies for commercial exploitation.

The projects done under FIEPER 1.0:

PROJECT GOERTZ: The project name, "Goertz" is named after Raymond C. Goertz, an early pioneer in the field of robotics and the person who demonstrated an early master-slave manipulator back in 1949. The ultimate goal with Project Goertz is to create an industry standard 6-DOF articulated robotic arm that can be used in warehouses and hazardous locations to perform various tasks, from stacking and pick-place operations to operating valves and so much more. Subsequent plans are to combine Project Goertz with Project Lunokhod (the Mobile Industrial Robot by the other team from MIT) to get a fully autonomous 6-DOF robotic arm cum mobile platform.

PROJECT LUNOKHOD: Project Lunokhod is a step towards this ideal portrayed by FIEPER. The name "Lunokhod" was inspired by the Soviet Lunokhod robotic lunar rovers. Like the rovers, Project Lunokhod is one of our first forays into uncharted territory with Project FIEPER.

Official Club Email

isamitmt@gmail.com



Indian Society for Technical Education Student's Chapter

Domain

Technical | Student Chapter

Objectives

ISTE Student's Chapter Manipal is a focused, multi-domain club that seeks to introduce the diverse fields of science and technology to its members. With the help of a variety of activities such as workshops, seminars, competitions, and vacation schools, ISTE dedicates itself to develop its members into skilled, multi-faceted individuals. ISTE strives to keep its members engaged by giving them several projects and mini projects. The club also gives importance to the all-round development of its members and works towards creating a productive, positive and learning environment to create a fun energy that makes its members comfortable. Along with that, ISTE aims to make use of its legacy and network of club alumni to share several experiences with its members and other students at the college.

Faculty advisor

Dr. Ramya S, Dept. of Electronics and Communication Engineering

Contact number

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ramya.lokesh@manipal.edu

Major Event

Hack The Crisis - An all India hackathon organised in collaboration with 4 other ISTE student clubs across the country. One of the major sponsors is the Hack for Earth Foundation based in Sweden that aims to come up with real solutions to combat global issues like climate change.



Official Club Email

istemanipalboard@gmail.com

LAKSHYA

LAKSHYA – The Agri Club of Manipal



Domain

Technical Club

Description

We aim to improve the efficiency, productivity and profitability in the agricultural field for the farmers with the help of various latest agricultural technologies and innovations. Our main objective is to focus on motivating the youth to find solutions to the day to day problems that are faced by our farmers. We even organize agricultural debates, hackathons and entrepreneurship summits for building up awareness and also to nurture the interest among students in this field. Hence for the future we plan to put more effort in the research and development to attain all the objectives.

Faculty advisor

Dr. Hareesha KS, International Center for Applied Sciences (ICAS)

Contact number

9481509128

E-mail

hareesh.ks@manipal.edu

Major Event

Visit to Bucolic Kailash: An Agritech and FMCG company founded by Mr. Utkarsh Sinha, an MIT Alumnus. They are social enterprise addressing food security and climate change in the scope of Aquaponics and Urban farming. They are an O.E.M (Original Equipment Manufacturer) . They research, develop and market life-shaping cutting-edge Technology and Management offerings for solving challenges associated with sustainable high – margin food production and distribution.



Official Club Email

lakshya.tac@gmail.com



Linux Users' Group, Manipal

Domain

Technical

Objectives

Linux Users' Group (a.k.a. LUG), Manipal is a conglomeration of individuals who got together because of one common love: the Linux operating system. However, we soon discovered that we had much more in common than Linux: the GNU and Free Software ideals, strong views about the privacy of the individual, and a desire to Change the World. We share our knowledge about GNU/LINUX and other FOSS software with everyone through events and workshops. A large number of projects used in MIT are made by LUG Manipal group members.

Faculty advisor

Ashwath Rao, Dept. of Computer Science and Engineering

Contact number

9845403148

E-mail

ashwath.rao@manipal.edu

Major Event

Linux InstallFest - In this event, we helped students learn the procedure to install Linux on their system. We also help them set up their systems for further development in the Open Source Ecosystem and the advantages of dual-booting their systems.



Official Club Email

hello@lugm.xyz



Manipal Information Security Team

Domain

Technical

Objectives

We are a team of Information and Network Security enthusiasts who aim to spread the knowledge to other students with an interest in this ever-growing field of Computer Science. Our goal is to ensure that students approach this field the right way by providing them with a platform to enhance and practice their skills. We also provide technical expertise for digitization of organizations to keep up with the growing technological advancements.

Faculty advisor

Dr. Raghavendra Ganiga, Dept. of Information & Communication Technology

Contact number

9986754151

E-mail

raghavendra.n@manipal.edu

Major Event

Incognito: Flagship cyber security competition. Events range from ethical hacking, cryptic hunt, and a virtual manhunt.

Official Club Email

sudo@wearemist.in





MIT Gaming Club

Domain

Technical

Objectives

- To help students explore and learn about the development of video games.
- To aid in the growth of the gaming community in Manipal by having students contribute to the culture of gaming in and around Manipal.
- To work on and commit to developing video games by pursuing work in various game engines such as Unity3D, Godot and Unreal Engine.
- To conduct and encourage friendly competitions between gamers in Manipal.

Faculty advisor

Ganesh Babu C, Dept. of Computer Science and Engineering

Contact number

96632 67532

E-mail

ganeshbabu.c@manipal.edu

Major Event

LAADKI Valorant Charity Tournament, Esports Team Tryouts and Formation - Valorant and Counter-Strike: Global Offensive



Official Club Email

gamingmanipal@gmail.com



Regex

Domain

Technical

Description

Regex is a software development club which develops software focused on localized issues, which the community faces on a daily basis. In order to develop secure and performant products fast, we use techniques used by teams at an industrial scale. The idea is to propagate the concept of planned and strategized building of a project instead of an ad-hoc alternative and promote a DevOps based culture that was lacking in our college. We achieve this by implementing several mechanics that are rarely explored otherwise. Through these practices, we try to create an environment which will produce long term sustainable projects.

The secondary focus of the project is to familiarize members with the processes involved in a software development life cycle whilst maintaining a professional workflow in the development of a project.

Faculty advisor

Dr. Chandrakala C B, Dept. of Information & Communication Technology

Contact number

94488 88488

E-mail

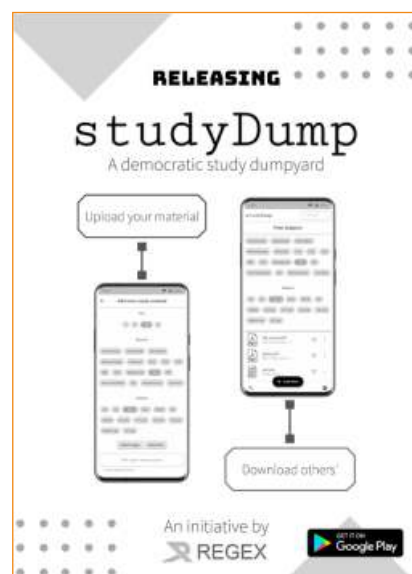
chandrakala.cb@manipal.edu

Major Achievement

We released our first solution StudyDump, a democratic platform for all those times you need to access documents related to academics. It is a place where you can upload study material or simply download the documents you need to prepare for an exam.

Official Club Email

admin@mitregex.com





MANIPAL UNIVERSAL
TECHNOLOGY BUSINESS INCUBATOR

Supported by NSTEDB, Dept. of Science & Technology, Govt. of India and MAHE, Manipal

Student Entrepreneurship Cell

Domain

Business

Objectives

The Student Entrepreneurship Cell was made along with it to enhance entrepreneurial skills in every individual of the region by organizing various events like hackathons, talks, webinars, conferences, fests, etc. Create an ecosystem that will foster and support innovation and knowledge-based entrepreneurship amongst the local community leading to the creation of wealth and social value through successful ventures.

Faculty advisor

Dr. Santhosha Rao, Dept. of Information & Communication Technology

Contact number

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santhosha.rao@manipal.edu

Major Event

Manipal Entrepreneurship Summit - Manipal alumni entrepreneurs were called in a 2-day summit. They shared their journey, vision and thoughts with the students from all over MAHE.



Official Club Email

sec.mutbi@gmail.com

Society of Automotive Engineers - India | Manipal



Domain

Technical

Description

SAE Manipal Collegiate Chapter, is the official Automotive club of MIT. Society of Automotive Engineers – India|Manipal (SAE-IM) is affiliated to SAE International. We aim to provide a platform for Automotive enthusiasts to shower their talents towards the Automobile Industry. SAE-International has a group of whopping 128,000 engineers ranging from the Automobile to the Aerospace Industry. Followed by this, we intend to achieve our mission by hosting and organizing various activities, workshops, interactive sessions, industrial visits and practical demonstrations. All this yields us into the optimum platform to contribute to the Society and the Automotive Industry as well.

Faculty advisor

Dr. Padmaraj NH, Dept. of Aeronautical & Automobile Engineering

Contact number

9886106513

E-mail

padmaraj.nh@manipal.edu

Major event

Unscrew Engines



Official Club Email

saemanipal@gmail.com



Teach Code for Good

Domain

Technical & Social

Description

The club focuses on introducing coding to children studying in Government Schools within Manipal. The course being taught to them is simple, like basic HTML or Python, introducing them to the world of coding. Students in these schools often do not have proper access to resources essential to learning, including a lack of good teachers, so the idea is to try our best to share our knowledge, and to bridge the gap between them wanting to learn and being unable to, due to external factors. Regular visits to such schools, familiarizes the students with the members of the club, helps them feel comfortable in learning new concepts and creates a better learning environment, backed up by a course plan which is simple and fun to explore.

Faculty advisor

Chethan Sharma, Dept. of Information and Communication Technology.

Contact number

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E-mail

chethan.sharma@manipal.edu

Major Event

Come and Teach (Date:17/1/2020)



Official Club Email

tcfgmanipal@gmail.com



The ASTRONOMY Club

Domain

Technical

Description

The Astronomy Club, focuses upon bringing together the students of MIT for their love towards anything related to sky, whether it be sky gazing, theoretical stuff which was kindled by watching Star Wars, Cosmos by Carl Sagan, etc. Whether it be black holes, flat earth theory, conspiracy theories about Space Agencies, we are up for it all. But our mission doesn't stop there. We also build our own Star tracker and telescope which requires expertise from different parts of engineering. We hold sky watches where we can sit back and appreciate the aesthetic scenery just waiting to be seen like the eclipses, blood moons, or when the planets like Saturn and Jupiter can be viewed and also, who doesn't like to watch the beautiful constellations and nebulae.

Faculty advisor

Dr. Pramoda Kumara Shetty, Dept. of Physics

Contact number

9448251905

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pramod.shetty@manipal.edu

Major Event

Talk on space tourism by Mr. Boris Otter.

We also have Podcasts about various astronomy topics, Weekly social media quizzes and interesting post.



Official Club Email

astronomy.manipal@gmail.com



Open Source Technology Forum

Domain

Technical

Description

OSTF is a registered technical club of MIT in 2016. It is Initiated to increase awareness of the Open source paradigm of software development and distribution in the present era. Students present and discuss ideas on open source development strategies through seminars, workshops, hands-on and discussion sessions.

Objectives

- To provide a platform for students to network and propagate the use of open source technologies among student communities.
- To initiate students to explore and collaborate on inter disciplinary, open source projects among students from various departments in M.I.T., Manipal.

Faculty advisor

Archana A H, Dept. of Data Science and Computer Applications

Contact number

9964278136

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archana.suk@manipal.edu



Official Club Email

opensource technology forum mit@gmail.com



IEEE EMBS

Domain

Technical | Manipal Chapter

Description

The Engineering in Medicine and Biology Society of the IEEE advances the application of engineering sciences and technology to medicine and biology, promotes the profession and provides global leadership for the benefit of its members and humanity. The Manipal Chapter aims to do the same with the faculty and the students at Manipal Institute of Technology and other constituent colleges under Manipal Academy of Higher Education. Our field of interest is the development and application of engineering concepts and methods to biology, medicine and health sciences to provide effective solutions to biological, medical and healthcare problems. The club is interested in bioinformatics, biotechnology, clinical engineering, information technology, instrumentation and measurement, micro and nanotechnology, radiology, and robots. The aim is to have professionals coming in from an array of domains, in the pursuit of bridging the link between science and life science, creating innovations in healthcare technology for the benefit of all humanity.

Faculty advisor

Dr. Nandish S, Manipal School of Information Sciences

Contact number **E-mail**

7892173759

nandish.s@manipal.edu

Major Event

Rural Healthcare and **Medical Device Development – Design for Safety**



Official Club Email

embs.ieeemanipal@gmail.com



Research Society

Domain

Technical

Description

The Research Society is an initiative meant to promote research among the students of MIT, and get them involved in it right from the grassroots level. It started as an initiative by six students from various departments, who recognized the need for a research-specific organization that wasn't restricted to any particular department, one that would facilitate interdisciplinary research and provide a forum through which we could encourage technical discussions and interactions between students.

Faculty advisor

Dr Muddu Madakyaru, Dept. of Chemical Engineering

Contact number

9663620956

E-mail

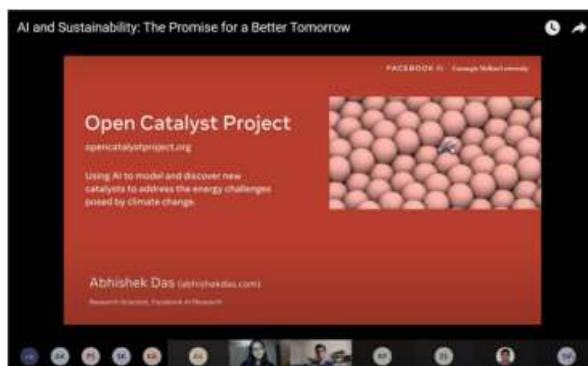
muddu.m@manipal.edu

Major Event

A number of collaborative research articles authored by students of MIT accepted in reputed conferences in thrust areas such as Machine Learning, Natural Language Processing, Deep Learning, Molecular dynamics, Nano particles and much more.

On going projects in areas of Artificial Intelligence, Deep Learning, Smart Sensors, Image Processing, Robotics, cyber security, Nano fibers and such.

Technical Webinar AI and Sustainability: The Promise for a Better Tomorrow Dr. Abhishek Das Research Scientist, Facebook AI Research PhD in Computer Science, Georgia Tech | 27th September 2021



Official Club Email

research.society.mit@gmail.com



LeanIn Manipal

Domain

Technical | Manipal Chapter

Description

LeanIn Manipal is a registered technical club of MIT in 2021. This club will be the Manipal Chapter of the international organization LeanIn. It is a non-profit organization that was started by the Facebook COO Sheryl Sandberg to offer women the ongoing inspiration and support to help achieve their goals. The organization desires to support women in three main ways: community, resources, and circles, or small, coordinated peer groups that meet to share their experiences and learn from one another.

Faculty advisor

Dr. Poornima Panduranga Kundapur, Dept. of Data Science and Computer Applications

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Major Event

LeanIn Manipal's Mentors Conclave 2022

Three sessions were held:

- Session-1: Choosing Non-technical fields after undergrad -> programs on and off-campus, applications, internships.
- Session-2: Pursuing core technical fields after Btech -> campus recruitments, internships, competitive coding.
- Session-3: Going for masters after undergrad -> applications, internships, research experience, scholarship programs, timeline.

Number of registrations: 300+ Dates - 11/03/2022 to 13/03/2022

Hosting Platform – Zoom



Official Club Email

leanin.manipal@manipal.edu

Enactus



Domain

Technical

Description

The idea of this club is to establish the first social entrepreneurship club of MIT, Manipal and introduce students with the concept of deriving social impact out of a business model. The goal is build a community of socially responsible entrepreneurs incampus, thereby creating sustainable business model to uplift the life of local communities and help solve other climatic or social problems in the region of Udupi.

Objective

To engage the next generation of entrepreneurial leaders to use innovation and business principles to improve the world.

Faculty advisor

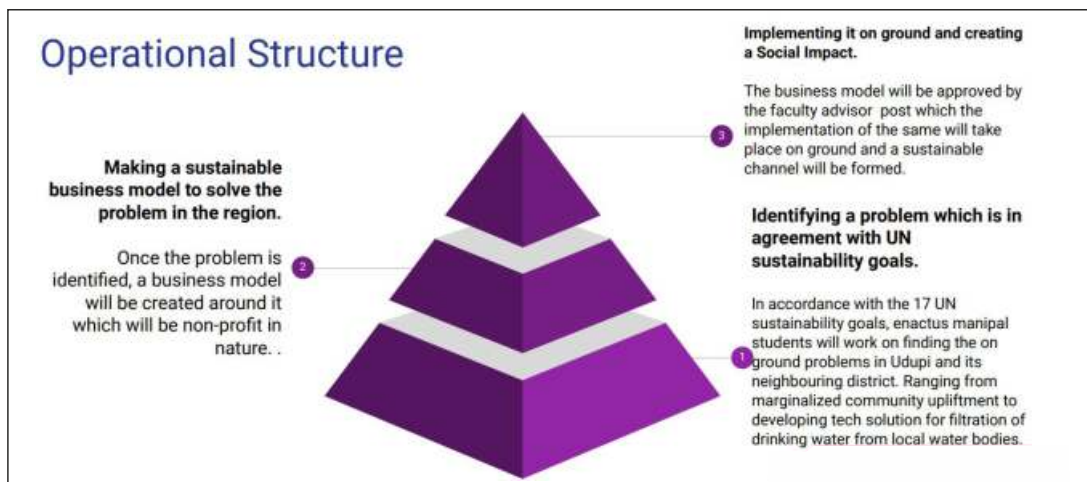
Dr Arun Kumar, Dept. of Computer Science Engineering

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Official Club Email

enactusmanipal@gmail.com



Manipal Open-Source Society (MOSS)

Domain

Technical

Description

Manipal Open Source Society – the official open source club of MIT solely concentrates on developing and contributing to the spectacular field of Open source through the lenses of Software Development, Machine Learning, Artificial Intelligence, Cloud Computing, Computer Graphics, Cybersecurity, Robotics and much more. The primary focus is on spreading awareness about open source programs and software through workshops and our flagship annual event MSOC- "Manipal Season of Code"!

Faculty advisor

Manamohana K, Dept. of Computer Science and Engineering

Contact number

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E-mail

sri.manmohan@manipal.edu

Major Event

"Perceptron - Build your own Machine Learning Project in 5 days"

A weeklong event aimed at being a steppingstone for absolute beginners to help them get started with Machine Learning and Computer Vision. The event spanned 4 days with 4 back-to-back workshops starting from basics of python libraries, introductory ML algorithms to Neural Networks, CNNs and basics of Image processing with OpenCV. The participants were guided through workshops and were provided with detailed python notebooks with code and resources. The event was conducted successfully with more than 100 registrations.



Official Club Email

mossmanipal@gmail.com

BIOVERSE MANIPAL

Bioverse

Domain

Technical

Objectives

- To spread awareness about biotechnology amongst people from other fields.
- To foster a multi-disciplinary approach towards biotechnology by providing students from biotechnology and other fields an expansive understanding of the subject ranging from the research aspect to its industrial applications.

Faculty advisor

Dr. Divyashree M S, Dept. of BioTechnology

Contact number

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E-mail

divyashree.ms@manipal.edu

Major Event

'Boundaries of science' debate: A debate competition consisting of intriguing topics were explored as the club members from all the departments had a fruitful debate with the board members as judges. The debate was conducted online and the winners were awarded certificates. Held on Feb 4, 2022.



Official Club Email

bioversemanipal@gmail.com

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AAINA DRAMATICS

Domain

Cultural

Description

We aim to provide students an opportunity to participate in different types of theatrical activities. Being a dramatics club we expose them to different creative aspects of a theatre like acting, characterisation, script-writing, management, finances, publicity, costume and prop design, light and sound synchronisation thereby enhancing their communicative, thinking and performance skills as well as aiding in interpersonal development. The main objective of the club is to help students learn the art and subtle technicalities of theatre at the front end as well as backend parts and to pass this knowledge to the every new coming set of students enabling them to understand and appreciate this form of art.

Faculty advisor

DAP Prabhakar, Dept. of Mechatronics

Contact number

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pavan.prabhakar@manipal.edu

Major Achievement/Event

Spotlight" Exclusive first year event, 6 stage plays converted to short film format to give maximum exposure to freshers about theatre, 100+ club members involvement.



Official Club Email

aainadramatics.mit@gmail.com



ADA DRAMATICS

Domain

Cultural

Description

ADA Dramatics is a socio theatrical society of MIT Manipal which gives drama enthusiasts a platform to flaunt their knack of dramatics to the world. Along with theatre arts, we provide opportunities for the development of management and communication skills. We focus on both personal and professional growth of an individual as well as the growth of the club as a whole. This club firmly believes that wins and losses are mere numbers, it is important to celebrate the efforts of the people and encourage them throughout. We have numerous departments in the club which range from acting to writing, from short films to sets and logistics, instrumentals, lights and sounds and so on. We also use this platform to preserve some brilliant theatrical art in history, while adding modern twists to it. We have introduced mime and short films in the club apart from centre-stage and street-plays, also we plan to expand more in the coming years. And yes, we mean it when we say 'Duniya Dekhegi teri ADA'.

Faculty advisor

Dr. Pavan Hiremath, Dept. of Mechanical & Industrial Engineering

Contact number

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E-mail

pavan.hiremath@manipal.edu

Major Event

'The Hound of the Baskervilles', based on the Sherlock novel by Sir Arthur Conan Doyle was performed by Ada Dramatics as our main production in November.

Major Achievements

Mood Indigo Top 5 (Centre Stage: Third Bell) 2019

Christ University Mime 2nd position (2020)

Unmaad (IIM Bangalore) Centerstage special mention, monoact 1st position (2020)

Revels Nukkad Naatak 2nd position (2020)

Revels Centrestage 2nd position (2020)



Official Club Email

adadramatics17@gmail.com



THE ADVENTURER

Domain

Social

Objectives

The Adventurer is an outdoor adventure education program that focuses on exploration, environmental stewardship and leadership. For the year 2019 - 2020, we have had 60+ registrations, 30 participants and 22 finishers. Currently, our team has 4 faculty, 7 student volunteers and 7 professionals who collaborate with us to conduct workshops in diverse fields such as local ecology, emergency first aid, risk management and astronomy.

At the Adventurer, we have strived for women to succeed in the outdoors. We have women who contribute in various roles within the organization. Our women participants are amongst the first in Karnataka to cycle to Agumbe, Kudremukh and Kundadri.

By its very nature, the Adventurer is aligned to the Institute's USP of being a centre of excellence in experiential learning. We are research driven and are pursuing publications in the field of adventure and experiential education.

Eleanor Roosevelt said "The future belongs to those who believe in the beauty of their dreams". Many have contributed to making the Adventurer a reality - our vibrant team of go-getters, college administrators who believe in our values, and enthusiastic participants who love a good challenge. A common denominator has been our love for the natural beauty that abounds Manipal. Our dream is to preserve it for generations to come.

Faculty advisor

Ganesh Nayak, Dept. of Instrumentation & Control Engineering

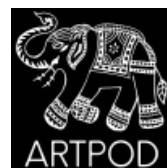
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ARTPOD

Domain

Cultural

Objectives

Promote fine art, art appreciation and conduct art exhibitions, interactive events and art interpretation seminars

Faculty advisor

Sharal T Correa, Dept. of Humanities and Management

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sharal.correa@manipal.edu

Major Achievement/Event

Art exhibition in March 19

Art cafe

Art interpretation seminar with blank 101



Official Club Email

artpodmanipal@gmail.com



BLANK 101

Domain

Cultural

Description

From stories behind facts to facts behind the fiction, from the lores of history to the realities of mankind, we at Blank 101, celebrate the art of public speaking with a unique way of storytelling, as we spread knowledge and pique one's interest, imagination, and awe. The club aims at helping and guiding people through the various nuances of public speaking. All events are aimed at promoting and helping people get over their fear of speaking in front of an audience, which is a very valuable soft skill in the current times.

Faculty advisor

Adithi Shastry, Dept. of Humanities and Management

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adithi.shastry@manipal.edu

Major Event/Achievement

Organized two in-club talk activities:

The Art of Dissent'. Organised on 12th January, 2021 via Google Meet, the event presented a platform for attendees to put forth any thoughts and enable open discussion on the topic.



Official Club Email

blank101.mit@gmail.com



BEHIND THE SCENES

Domain

Cultural

Objectives

To learn about the craft of filmmaking and make contributions.

Channel a general interest in the world of films to all the college students through our social media and activities through workshops and screenings.

Description

Collaboration is the key to a setup like filmmaking independent of its scale. Hence, we seek to connect with other clubs in order to create a better experience by collaborating on departments like videography and sound.

Harbouring and growing on the current interests about films to not just members of the club but any person genuinely interested in films. It aims to spread the appreciation of non-commercial background cinema apart from the big budget productions.

Faculty advisor

Devicharan R, Dept. of Media Technology

Contact number E-mail

86607 22089

devicharan.r@manipal.edu

Major Achievement

Our latest release *Thanda Gosht* garnered 23.6k views on YouTube, a record no student-made film has achieved from MAHE.

The film also won the Film Fare Fiesta conducted by IIT Hyderabad in their Elan & Nvision events.



Official Club Email

movie.club.mit@gmail.com



BLITZKRIEG DANCE CREW INDIA

Domain

Cultural

Description

After being Declared as India's Best Dance MegaCrew in HIP HOP INTERNATIONAL INDIA 2016, Blitzkrieg is leading its legacy in its next batches and maintaining the Glory everywhere. In the year 2019-20 Blitzkrieg got placed in Ever Single Competition we've been to. We had taken part in Revels for 5 events and secured both 1st and 2nd place for all the 5 events completing a Whitewash. But we have dancers that train and Encourage every individual to prevail in various other dance forms and we've excelled in them to. Its time to be Part of this Glory. Looking forward to having you in Blitzkrieg.

Faculty advisor

Akshay M J, Dept. of Computer Science Engineering

Contact number

97425 03805

E-mail

akshay.mj@manipal.edu

Major achievement

2nd place in Unmaad 2020 /21 (Cultural event of IIM Bangalore)



Official Club Email

blitzkriegdancecrew@yahoo.com



CHORDS AND CO.

Domain

Cultural

Description

Our mission is to increase awareness around music, help students learn new instruments, and to provide a safe space for musicians to practice their skills and streamline their efforts towards becoming professional sounding musicians in the near future. We are committed to delivering a stage to musicians for showcasing their talent.

Our Music Community harbours enthusiastic beginners, amateurs and passionate prodigies alike. With a vast network of talented musicians inclined towards a myriad of different genres and styles, we leave no stone unturned to enrich the city's musical ambience.

To "make Manipal more musical" has been our motto and our endeavours in the past corroborate it. We seek to provide opportunity and resources to anyone who would like to grow as a musician, by hosting open mics and competitions, organising music classes and workshops spanning multiple instruments.

Faculty advisor

Vishnu Sharma A, Dept. of Civil Engineering

Contact number

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E-mail

sharma.atikukke@manipal.edu

Major Event

Grooveyard - A Halloween themed event with a Battle of Bands and solo performances as the musical highlights.



Official Club Email

chords.co@gmail.com

curioCity

Domain

Social

Objectives

We at CurioCity focus on giving underprivileged children the missing edge that they are deprived of due to inherent limitations of formal education. Enabling students to learn in a friendly, fun and participative way and develop into curious, creative and informed citizens who can rightly assess their capabilities and worth and use this information to benchmark their potential against their peers when they grow up. We reach out to students in government/municipal schools and initiate our well-structured programs through a strong and dedicated pool of student volunteers and engage classes at these schools on a daily basis.

Faculty advisor

Dr. Alapati Vittaleswar, Dept. of Humanities & Management

Contact number

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vittal.alapati@manipal.edu

Major Event/Achievement

Conducted classes for the students of class 9th and 10th, NMMS scholarship exam preparation for class 9th students.



Official Club Email

wecuriocity@gmail.com



ECOLOGICAL CONSERVATION & HABITAT RESTORATION ORGANISATION

Domain

Environmental

Objectives

The main objective of this club is to ensure the conservation of the environment and spread the need for its protection.

To instil a sense of responsibility towards the environment.

Promote the participation of students in improving the environment.

Support programs, which encourage others to reduce pollution, plant trees, minimize wastage etc. on various levels

Help participants in having a personal commitment to preserve the environment.

To improve the campus environment and take necessary steps to achieve it.

Provide students with the opportunity to learn more about their surroundings and participate in service projects at school and in the community

Advocate the usage of biodegradable alternatives in our society

Faculty advisor

Sandeep GS, Dept. of Civil Engineering

Contact number

9164489836

E-mail

sandeep.gs@manipal.edu

Major Event/Achievement

Sapling challenge



Official Club Email

echomanipal.org@gmail.com

EK SANGHARSH

Domain

Social

Description

Ek Sangharsh believes in the value of returning back to the society in several ways, and play our part in making the society a better place. We organize educational trips to underprivileged schools in various domains, such as science, coding and recreational activities such as art competitions. We also organize welfare trips to orphanages and old age homes, to provide value in terms of goodies, playing games and in the process spending time and getting to know them. We organize "green" trips such as Clean-up drives to make the society a cleaner and greener place.

Faculty advisor

Dr. Anoop Kishore V., Dept. of Chemical Engineering

Contact number

95359 57493

E-mail

anoop.vatti@manipal.edu

Major Event/Achievement

Art Competition held at school.



Official Club Email

eksangharsh.mitmanipal@gmail.com



EVOLVE

Domain

Sports

Description

Physical Education caters to provide physical fitness, which is an important component of wellness. Evolve, started on 2nd November, 2019, the one and the only fitness club of MIT offers this platform to any individual who commits to be fit both physically and mentally through various activities, workshops, events and more. In the club, we provide extensive knowledge in all areas of body fitness including nutritional information, exercise tips, strength training, injury and recovery education and more. Evolve also provides for various types of fitness trainings which include strength & conditioning, yoga, calisthenics, bodybuilding, endurance training and other functional exercises. As a club we hope to see a healthy and more hearty lifestyle of every individual by inspiring them to make wellness their favourite habit, after all strong is the new beautiful.

Faculty advisor

Nausha Shetty, Dept. of Civil Engineering

Contact number

9964199848

E-mail

nausha.shetty@manipal.edu

Events

• VIRIBUS 2019 • EVOFIT 2019 • MAX-DEADLIFT 2019 • POWERLIFTING-REVELS

Major Event/Achievement

- Evofit is a three day event, which is a test of strength and endurance for the participating individuals.
- The Workout Head of the club won Gold medal in Mr.Mahe 2020 (above 75kg)



Official Club Email

evolve.mit@gmail.com

GLAM&GLITZ

Domain

Cultural

Objectives

We at Glam&Glitz have a very friendly yet hardworking environment which has been maintained and will be maintained in the future. We try to cover every aspect of fashion being a fashion club, from ramp walk, modeling and photoshoots to makeup and designing our own costumes.

We try our best and let each and every member of the club participate in some way or the other.

Faculty advisor

Priya Kamath, Dept. of Computer Science and Engineering

Contact number

9844551318

E-mail

priya.kamath@manipal.edu

Major event/achievement

First Runners up at NITTE'20



Official Club Email

glamnglitz21@gmail.com



GOONJ

Domain

Cultural

Description

It aims to give a platform to the enthusiasts of Hindi poetry and literature, where they can discuss and promote the language by participating in competitions held in and around Manipal (including several open mics organised by the club) as well as in outstation fests like Unmaad of IIM Bangalore. The club also works under the motive of spreading awareness and raising the voice for a good cause, through poetry and its online presence. We, as a club also believe in promoting Indian cultural and hence, every year we organise Durga Puja with a touch of Hindi poetry on topics like women empowerment and women safety.

Faculty advisor

Dr. Fasiulla, Dept. of Chemistry

Contact number

7019950661

E-mail

fasi.khan@manipal.edu

Major Event/Achievement

Unmaad 2020 - IIM Bangalore: The cultural festival organized by the Indian Institute of Management, Bangalore over three days. Goonj, the Hindi Literary and Debating Society of Manipal participated in the Cultural fest and won both the winners and the runners-up prize in the flagship poetry event KissaKaviyon Ka.

We also won the maximum events and competitions which were organized in the fest, and we were given the trophy of the Best Contingent.



Official Club Email

mahegoonj@gmail.com



HUMAN POWERED ENDEAVOURS

Domain

Social

Description

Human Powered Endeavours is a club that emphasizes spending time outdoors-cycling, trekking, in a world where a sedentary lifestyle is becoming the norm.

We organize: • Bicycle rides to places like Kapu, Delta, Agumbe, Kundadri, etc.

- Birdwatching sessions in and around Manipal
- Treks to scenic locations like Gundupade, Ajjikunj

Our VISION: Enabling people to grow and learn by exploring nature and nurturing their own potential.

Our MISSION: Conduct outdoor activities including cycling in pursuit of fitness and excellence in their own HPE.

Faculty advisor

Dr. Gurumurthy S C, Dept. of Physics

Contact number

9449740014

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gurumurthy.sc@manipal.edu

Major Achievements

1. An online workshop for the freshers at Manipal to guide them about the types of cycle and terrains in and around Manipal. Guidance on Bicycle maintenance was also imparted to the attendees it focused on cleaning, lubricating, tuning of bicycles from a technical standpoint, with advanced techniques, correct choice of equipment for maintenance and riding, structure and inner workings of a bicycle etc.

Date: 10 December 2020 | Platform: MS Teams

Number of Attendees: 20* (initial count)



2. AVES IN MANIPAL: An Instragam series of posts about birds in and around Manipal. The post includes a bird picture, description and behaviour of the bird, location of the photograph and the name of the photographer.

Date: 20 May 2021(Series start date)

Platform: Instragam (https://instagram.com/hpe_manipal?utm_medium=copy_link)



3. ENDEAVOURS AT MANIPAL: An Instragam series of posts having the initiatives and the endeavours which are undertaken in and around Manipal by Manipalites to make a positive Environmental impact.

Date: 8 June 2021(Series start date)

Platform: Instragam (https://instagram.com/hpe_manipal?utm_medium=copy_link)



Official Club Email

hpe.manipal@gmail.com



THE OFFICIAL LITERARY, DEBATE AND QUIZ CLUB OF MIT, MANIPAL

Domain

Cultural

Objectives

- To promote and practice facets of the categories of Literature, Debate and Quiz. The activities practiced and promoted are all also events at cultural fests, and tournaments across the country.
- To perform and achieve at these outstation fests and tournaments
- To introduce, impart and develop these skills to the students of the university

The specifics of each society under the club are

- LitSoc – Creative Writing, JAM, Charades, Slam Poetry, PotPourri
- DebSoc – British and Asian Parliamentary Debating and Debating Workshop
- QuizSoc – Multiple types of Quizzes, ranging from India, Pop Culture, Technical etc

Faculty advisor

Sriprasad Acharya, Dept. of Chemical Engineering

Contact number

98808 03665

E-mail

sriprasad.acharya@manipal.edu

Major Achievement

Manipal Institute of Technology Debating Tournament, Litstock, Manipal Fresher's Debate Tournament



Official Club Email

ldqmit@gmail.com



LEADERS OF TOMORROW

Domain

Cultural

Description

We at Leaders of Tomorrow focus on the all-round development of students, to make them fit to lead in both corporate and social lives. We aim to create an environment of civil discourse and discussions over issues plaguing the modern world, which we emulate in ManipalMUN, our flagship event, and one of the biggest MUNs in the south circuit. We also organize "CAMBIAR," which introduces freshers to the diverse clubs present in Manipal. We now maintain a distinct identity as Manipal's leading club for political discourse.

Faculty advisor

Dr. Raviprakash Y, Dept. of Physics

Contact number

94482 15078

E-mail

raviprakash.y@manipal.edu

Major Event/Achievement

CAMBIAR 2020 (Odd Semester): Audience: 1,200 (Concurrent individual viewers)
Views: 7,881
Participation: 22 Clubs under MAHE

Conducted one of MIT's largest club exhibitions comprising of a diverse assortment of clubs that displayed the heart of Manipal's club culture.

ManipalMUN 2021 (Odd Semester): Audience: 250+
Participants: 150

Organized a national-level MUN conference for collegiate students, in which Team MUNipal delegates bagged top awards in the committees.



Official Club Email

lotmanipal@gmail.com



MANGA AND ANIME CLUB

Domain

Cultural

Description

The Manga & Anime Club is a focused and enthusiastic cultural club. We at MAC seek to unite the growing fandom of anime, manga, games and novels. We provide a forum for open discussion and most importantly, allow all to revel in the brilliance of these art forms. The heart of this community is sharing the excitement we feel towards these media and relishing the enjoyment we receive from them.

MAC engages in the celebration of Japanese culture and media through its myriad of cultural events which are open to anyone who finds themselves intrigued by these works. Besides regular events, members of the club with artistic or writing talents are continuously encouraged to further their skills and display their talents while keeping in line with their interests.

Faculty advisor

Dr. Amrutharaj H. Krishnan, Dept. of Media Technology

Contact number

8151929439

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amrutharaj.hk@manipal.edu

Major Event/Accomplishment

Festive Impact: The event is based on the Open world RPG game Genshin Impact. Five subevents were held and they were Treasure Hunt, Teyvat Lore Quiz, Duke and Nuke, Teyvat Circuit and an Art Contest. The events were pretty fun and enjoyable. The event's media partner was MIT Post and technical partner was Allmity.



Official Club Email

mangaanimeclubmit@gmail.com



MIT LIVE

Domain

Cultural

Description

We are the video media body of Manipal Institute of Technology covering a range of events occurring in our campus. We cover the events throughout the campus and provide information through video publications. Our club engages students who exhibit interest and talent in photography, videography, acting in short videos, editing etc

Faculty advisor

Dr. Giridhar Kamath, Dept. of Humanities & Management

Contact number

9481567967

E-mail

giridhar.kamath@manipal.edu

Major event

For the last 1 year we have created content and addressed the importance of certain dates like "World day against child labour", "World laughter day", "Mother's Day", "International Yoga day" and much more. We strive on having a good senior - junior bond to have an interesting club working environment.

We have also been working on improving our social media handle by creating short and fun videos to entertain the audience.

Official Club Email

mitlive.manipal@gmail.com



मुद्रा - Imprint

Domain

Social

Objectives

To promote education and learning in govt. schools - Vedic Math, Computer Applications, Spoken English, life skills and extracurricular activities, also develop practical skills in students.

Faculty advisor

Dr. Mahesha M G, Dept. of Physics

Contact number

9449452341

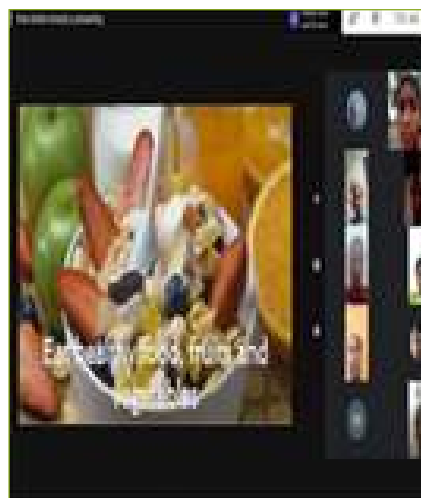
E-mail

mahesha.mg@manipal.edu

Major Achievement / Event

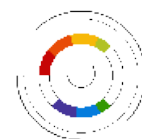
Health and Hygiene: To educate students on precautions against Covid

Breast Cancer Awareness: To bring awareness among children about breast Cancer.



Official Club Email

mudra.manipal@gmail.com



MUSIC AND FINE ARTS CLUB (M.A.F.I.A.)

MAFIA
MANIPAL ARTS AND FINE ARTS INSTITUTE

Domain

Cultural

Description

Music and Fine Arts Club is one of the oldest cultural clubs in MIT, Manipal. It aims to provide an open platform to all the budding artists, musicians, vocalists and dancers, to showcase and share their talents among other like-minded students. It is a community where students from all over MAHE who share common interests can connect with each other and pursue their passion and interests, while building their personality and career prospects simultaneously. The main focus of the club is to make sure that its members are able to nurture their talents and are provided the right guidance to do so during their time in college. MAFIA is not just a place for young talent - it also encourages people interested in various creative domains, with no prior knowledge regarding the same, to grow as individuals.

Our objective is to conduct several competitions (Music, Art and Dance), events, open mics, art exhibitions and shows throughout the academic year. We have set our goals straight for the upcoming academic year 2020-21. We aim to conduct more open mics and art exhibitions, collaborate with other esteemed groups in the college with the idea of making what we do more creative, innovative, and approachable to a larger audience in Manipal. We would also like to ensure that our members are readily given opportunities to attend college fests held by NITK, BITS, IIT, etc. The goal is to create an environment where every individual can do what they love while simultaneously developing a good personality that can help them in their future prospects. Uplifting the creativity of our members is of the utmost priority. We as a club, aim to make MAFIA the biggest platform for cultural activities involving music, art and dance - not just in MIT, but MAHE as a whole.

Faculty advisor

Dr. Rajendra B V, Dept. of Physics

Contact number

919448153177

E-mail

bv.rajendra@manipal.edu

Major Event/Achievement

The pandemic completely changed the way most of us go about our days. While clubs in MIT were once tightly knit groups of like-minded people who could meet each other whenever they wanted to, adapting to the online sphere of media creation and consumption became almost essential in the post-pandemic world. And we at MAFIA handled this transition seamlessly. We've consistently put out quality content for over a year, and this effort is reflected in our social media statistics.

We now have 2,013 followers on Instagram, a massive step up from where we were last year. Our content reached 23,745 Instagram accounts in the month of June 2021.

We formed our own dance team and publicly announced its creation via an Instagram Reel which garnered 28,480 plays and over 900 likes.

We managed to provide a national-level platform to our artists by collaborating with other colleges' clubs. Some of the events we conducted gathered excellent traction, and one such post from our art competition, 'Dystopiart', has close to a thousand likes and nearly 800 shares. We expanded to other social media platforms, and now have 7,100 monthly viewers on Pinterest. Our audience is now bigger than ever, and is growing every day!

Official Club Email

mafiacub.mit@gmail.com



NAQAAB FILMMAKING

Domain

Cultural

Description

The club aims to enlighten the students about the importance of cinema and its influence on society. We want to present students with an opportunity to show us the world through their eyes. We also hold screenings of unique movies that help us build a fun and sociable environment. These films often acquaint the members of our club with various cultural backgrounds. These screenings are often followed by a round of analysis by our members where they introspect the film and also challenge each other's views in a healthy way. Scriptwriting roundtables and various workshops also make up a part of our activities. These activities help the members learn through interaction and discussion.

Faculty advisor

Nitesh Kumar, Dept. of Media Technology

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nithesh.kumar@manipal.edu

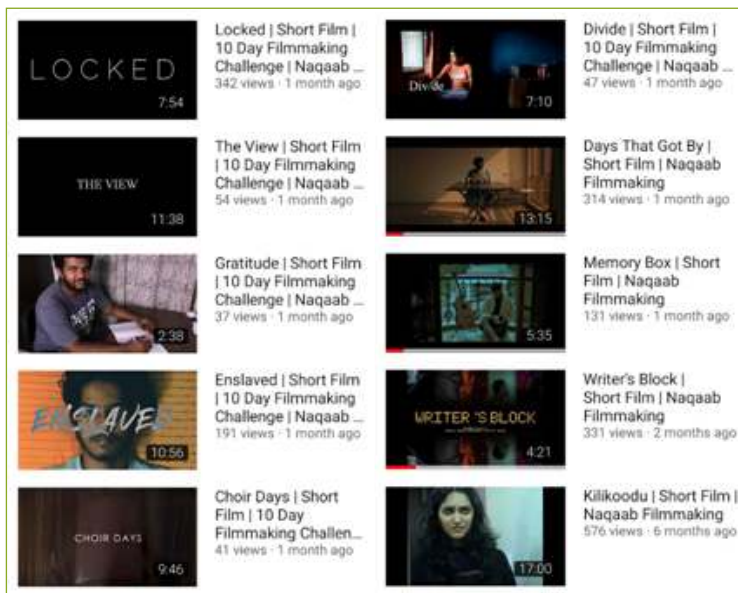
Major Event/Achievement

Ten films were produced remotely. All the work was done online and we didn't let the lockdown or the pandemic slow us down.

Films: Kilikoodu, Writer's Block, Memory Box, Days that got by, Divide, Choir days, Enslaved, Gratitude, The View and Locked.

Official Club Email

naqaabfilms@gmail.com





NUDI

Domain

Cultural

Description

We are the Kannada Literary, Cultural and Teaching club of Manipal. One of our primary objectives is to teach the state language of Karnataka- Kannada to all the non-Kannadigas and to minimise different types of language barriers in Manipal. We also focus on preserving the culture, traditions, festivals of Karnataka by celebrating them and also acquainting all Manipalites with it. Apart from that we hold inter-college literal and cultural competitions during the academic year. We believe in social participation through cleanliness drives like 'Swachh Bharat' and collaboration with other clubs for volunteering activities. We also celebrate the grand 'Kannada Rajyotsava' function on 1st of November every year.

Faculty advisor

Udayakumar KS, Dept. of Civil Engineering

Contact number

9900408120

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udayakumar.ks@manipal.edu

Major Event

Kannada Rajyotsava was the major cultural event held on 1st of November.



Official Club Email

nudi.manipal@gmail.com



THE PSYCH CLUB, MANIPAL

Domain

Cultural

Objectives

The Psych Club, Manipal comprises of a group of individuals yearning to understand the omnium gatherum of an intellect that is the human mind and exactly what makes it tick. We strive to increase understanding and generate awareness about the field of psychology, facilitate interaction among students as well as conduct research

Faculty advisor

Abhay Shetty, Dept. of Humanities & Management

Contact number

9035729023

E-mail

abhay.shetty@manipal.edu

Major achievement /event

1. **Meet Your Better Self** - A webinar which was held in collaboration with Reach Beyond NGO. The aim of the webinar was to shed light on the importance of Positive Psychology and how it can be used to unlock our true potential. We attracted 110+ participants to the event.
2. **Lights out** - An online workshop that focused on dream analysis and how our dreams tell us about our inner thoughts. We taught participants how to interpret dreams. The event attracted 120+ participants.



Official Club Email

thepsychclubmanipal@gmail.com

RED X



Domain

Socio-adventure

Description

RED-X has two wings DISHA (social wing) and ADVENTURE-X. In the social wing, Red-X carries out umpteen number of donations from books, clothes, bags, blood, food etc. It also helps the underprivileged children by teaching them on a regular basis. The DISHA wing is also responsible for various awareness talks and campaigns.

Through the adventure wing, RED-X carries out various treks and adventure activities. From the Himalayan trek to hiking in the Kudremukh, Red-X soars high in its adventure activities.

Faculty advisor

Shyam Karanth, Dept. of Computer Science & Engineering.

Contact number

9686300153

E-mail

shyam.karanth@manipal.edu

Major event/Achievement

We organised a Pan India Cloth donation drive in 2021.

As an initiative on Republic Day 2021, Red-X organised a bunch of cloth donation drives across the Republic Week stitched together as a 'Pan India Cloth Donation Drive' initiative. This was organised across 35+ locations in 20+ cities where a total of 200 volunteers helped in distributing clothes to the needy. A total of 3500+ lives were affected during this entire drive, helping the needy in such unprecedented times.



Official Club Email

redxmanipal@gmail.com

ROTARACT CLUB OF MANIPAL

Domain

Social and Cultural

Description

With the motto as "No work beneath us, No task beyond" the club, comprising of students from various colleges of MAHE, conducts Community Contact Programs (CCPs) consistently, on every Sunday as a way to connect with the less fortunate and help them. The signature event held in every odd semester is "Dhol Baje", the biggest cultural night of Manipal as well as a fundraiser for charity. Apart from these, Blood Donation Camps, Cloth Donation Drive, Swachh Bharat Abhiyan, Disaster Relief Campaigns and Pitch Fever are integral parts of the club's activities.

Faculty advisor

M Prasanna Kumar, Dept. of Civil Engineering

Contact number

9480141769

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prasanna.kumar@manipal.edu

Major achievement /event

Blood Donation drive (March 2022 and Nov 2021)



Official Club Email

rotaractmanipal3182@gmail.com



SHOWSTOPPERS

Domain

Cultural

Description

The objective of the club is to bring laurels to the name of the crew and the college by performing and competing in various eastern and western dance competitions.

To provide a learning atmosphere for potential and aspiring dancers by teaching and learning various dance styles like Bhangra, Indian Classical, Hip Hop and Contemporary. We give them the means and encouragement to pursue their passions. We strive to spread the dance movement as a way of self-expression which is a way to connect to the part of yourself that yearns to communicate your passions with the world.

Through dance workshops organised and hosted by our club, we bring esteemed professional dancers that provide a glimpse of the technicalities of dance allowing you to create and hone yourself as a dancer.

Faculty advisor

C R Srinivasan, Dept. of Instrumentation and Control Engineering

Contact number

8904947989

E-mail

cr.srinivasan@manipal.edu

Major event

Collaboration with TEDx MAHE on 30th May 2021



Official Club Email

crewtheshowstoppers@gmail.com



THE PHOTOGRAPHY CLUB MANIPAL

Domain

Cultural

Description

From giving people endless memories to cherish in the form of photos to bringing the best in people through photography, videography and graphics, we at 'The Photography Club, Manipal' aim at growing and improving the creative community everyday. We plan photowalks and workshops alongside holding a photography fest where people can unleash their creativity without any bounds.

Faculty advisor

Vishal Shenoy P, Dept. of Mechanical and Industrial Engineering

Contact number

9880901832

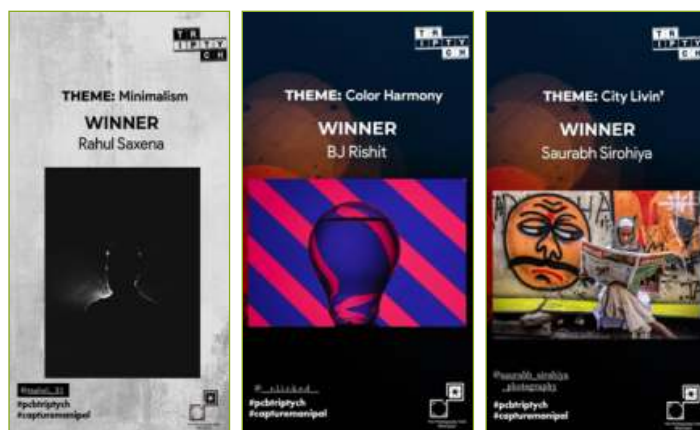
E-mail

shenoy.vishal@manipal.edu

Major Event

TRIPTYCH: An Online Photography Competition

The Photography Club, Manipal hosted Triptych, an online photography competition in May 2021, through Instagram. The competition, spanning a week, was open to all and had three themes. The competition was enormously successful and got more than 1200 entries across all three categories from all over India! After careful deliberations, three winners were selected who won exciting cash prizes.



Official Club Email

pcb.manipal@gmail.com



THE THINK TANK

Domain

Cultural

Description

The Think Tank is a forum that aims to help motivate young visionaries with an idea. It opens doors to millions of opportunities to give young minds a window to be the change the world needs. We aim to motivate each and every one to harbor their passion, to innovate their thoughts to fuel curiosity, and to create an environment with no constraints on one's train of thoughts.

Our motto being: Motivate. Innovate. Create.

Faculty advisor

Aneesha Acharya K, Dept. of Instrumentation and Control engineering.

Contact number

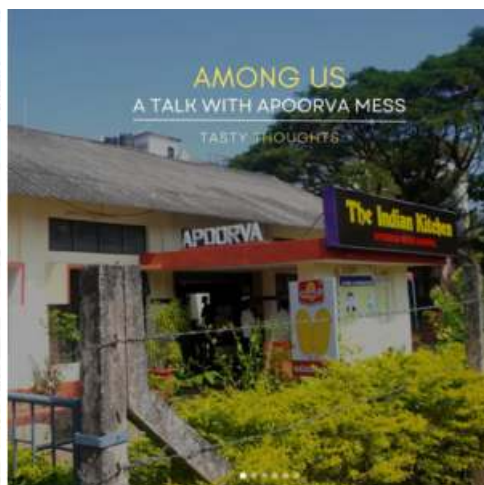
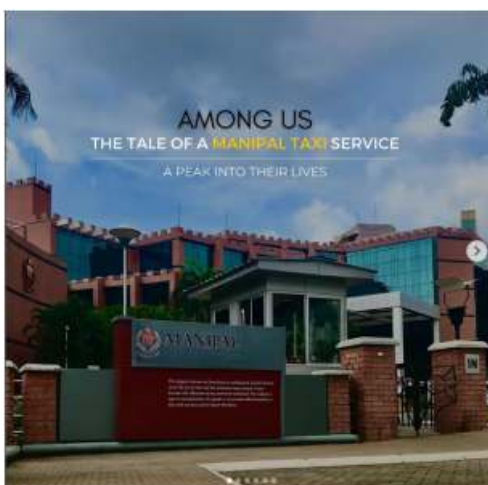
99640 19363

E-mail

ak.acharya@manipal.edu

Major Event

'Among Us' series: Highlighting the stories of the staff working in Manipal's various institutions. An online initiative that talked about the troubles faced by the people working in the town because of the overtaxing pandemic and people working inside our campuses and their strong wills with which they braved through the pandemic.



Official Club Email

thethinktankmit@gmail.com



180 DEGREE CONSULTING

Domain

Cultural and Social

Description

180 Degrees Consulting (180DC) is the world's largest university based consultancy, providing socially conscious organizations around the world with very high quality, extremely affordable consulting services.

We are committed to working with organizations to develop innovative, practical and sustainable solutions to the challenges they are facing.

Our organization caters to dedicated, passionate, motivated and creative students powered by innovation in the field of consulting.

Our Mission

Our mission is to strengthen the ability and tap into the potential of socially conscious organizations, thereby sharing with the world our view of a socially responsible economy.

What do we offer?

For establishments, we

- Improve and enhance their marketing tactics
- Help them scale to other geographical locations to spark a lasting positive social impact
- Improve their logistics management
- Indulge in helping them create a system that deals with sustainable financial management
- Detailed analysis and insight into the matter concerning the enterprise
- Plethora of resources and a valuable support network.

Faculty advisor

Dr V Ramachandra Murty, Dept. of Biotechnology engineering.

Contact number E-mail

9448529691

murty.vytla@manipal.edu

Events

Articulus 2020: Articulus is a marketing competition held by 180dc Manipal to test the creativity and market analysis skills of students.

Official Club Email

manipalacademy@180dc.org





YES!+ CLUB, MANIPAL

Domain

Cultural and Social

Objectives

To enhance self-awareness, confidence, focus, interpersonal skills and leadership qualities in students through powerful yet simple techniques and activities.

To equip students with efficient stress coping techniques, broader perspective, and spread awareness about a healthy lifestyle.

To familiarize the students with yoga techniques, Mind-Management skills and Self-Help techniques.

To engage students in team building activities, and initiate social causes with a sense of volunteering spirit.

Bringing the teachers and students together through workshops, social work, guest talks, musical evenings, weekly follow-ups etc. to enhance the campus life experience of the MIT.

Faculty advisor

Dr. Mruthyunjaya H S, Dept. of Electronics and Communication Engineering

Contact number

7892928702

E-mail

mruthyu.hs@manipal.edu

Major event/achievement

Organized the premier Youth Empowerment and Skills workshop with 200+ student participants from MIT and rounded off the workshop with a Mega Musical Symphony night with Swami Suryapada, eminent Physics professor and senior international Art of Living faculty.



Official Club Email

president.yesplusmanipal@gmail.com

BURNING ICE

BI

Domain

Cultural

Description

Burning Ice is Manipal's official fashion clubs. We will not only chic-up your personality (all puns intended) but also provide you a credible platform to grow as a fashion-conscious individual.

Faculty advisor

Nausha Shetty, Dept. of Civil Engineering

Contact number

9964199848

E-mail

nausha.shetty@manipal.edu



Official Club Email

aainadramatics.mit@gmail.com

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MIT BADMINTON LEAGUE

Domain

Sports

Objectives

The growing popularity of the PBL inspired us to start a Semi-Professional league of Badminton in Manipal Institute of Technology.

To create a platform to all the students with interest, passion and talent to show their skills in the sport.

The first ever season of the MIT BML was conducted in the academic year 2019-2020 and has attracted a lot of participation and in the coming years we aim to achieve keep raising the bar in this regard.

We hope to successfully keep providing the platform in the coming years and enable wonderful talents come to light.

Faculty advisor

Chethan KN, Dept. of Aeronautical & Automobile Engineering

Contact number

96206 74444

E-mail

chethan.kn@manipal.edu

Major Event

MIT BML Season 1



Official Club Email

mitbml.pr@gmail.com



MIT BASKETBALL LEAGUE

Domain

Sports

Objectives

MIT Basketball league is MIT's very own semi-professional league giving aspiring cagers a platform to showcase their talent. The turnout of players have increased over the years and this year we came up with a new format for the league. We hope that we continue helping them in realizing their dreams in the years ahead.

Faculty advisor

Chethan K N, Dept. of Aeronautical & Automobile Engineering

Contact number

96206 74444

E-mail

chethan.kn@manipal.edu

Majoe event

MIT Basketball League Season 3



Official Club Email

mitbbleague@gmail.com



MIT CRICKET LEAGUE

Domain

Sports

Objectives

The MIT Cricket League was started in 2016. The inspiration of the league was the Indian Premier League (IPL) and the creation of a platform for the young budding cricketers to showcase their talents on the semi-professional level. The students of all years are eligible to play in the leagues, so if u have the passion for the game, you can play. We believe in 'No dream is chased alone' and the league is a platform for not only elevating the sport of cricket but making Manipal a sporting goliath.

Faculty advisor

Chethan KN, Dept. of Aeronautical & Automobile Engineering

Contact number

96206 74444

E-mail

chethan.kn@manipal.edu

Major Event

MIT Cricket League Season 4



Official Club Email

mitclteam@gmail.com



MIT FOOTBALL LEAGUE

Domain

Sports

Objectives

The first of its kind in India, MIT Football League is a college semi-professional football league. The primary aim of ours is to endorse football among the student of MIT and providing a platform for students to showcase their skills. It all started in 2016 with the idea of starting a football league where students of the college can participate and compete. Fast forward five years, MITFL has just finished its fifth season. With the introduction of an Inter-Section tournament and Futsal tournament we have tried to increase the exposure of students towards the sport.

Faculty advisor

Chethan K N, Dept. of Aeronautical & Automobile Engineering

Contact number

96206 74444

E-mail

chethan.kn@manipal.edu

Major Event

MIT Football League, Intersection Tournament for First Years.



Official Club Email

mitfbleague@gmail.com



MIT CHESS CLUB

Domain

Sports

Objectives

The MIT Chess Club's primary goal is to give the abundance of talent in MIT a platform to compete on and to introduce new people to this evergreen game with the aim of growing the chess community in MIT. Our objective is to promote chess through various events ranging from tournaments that encourage healthy competition to chess seminars where new players are taught the basics of chess and are helped in taking steps towards improving their game. We believe that chess is a sport that can be enjoyed by anyone, regardless of the depth of their understanding of the game and their background and we strive to get this message across to all the students of MIT.

Faculty advisor

Dr. Babushri Srinivas Kedukodi, Dept. of Mathematics

Contact number E-mail

9740557439

babushrisrinivas.k@manipal.edu

Major achievement in 2019-2020

Conducted the first MIT Chess Championship, the first ever all MIT open chess tournament.



Official Club Email

chessclubmit@gmail.com



MIT SPORTS CLUB

Domain

Sports

Objectives

- To keep contributing to the sphere of sports in Manipal Institute of Technology like we have since our inception in 2012.
- To keep increasing the participation in sporting events.
- To provide a platform for students to showcase their talent in sports and the college to pick some of the finest talents.
- To increase the women participation in sports and we have succeed in it so far.

Faculty advisor

Chethan K N, Dept. of Aeronautical & Automobile Engineering.

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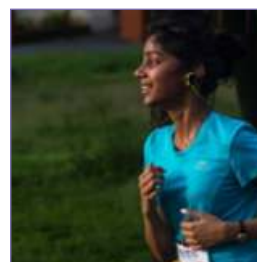
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Major event

We have successfully conducted the Inter-branch Badminton Tournament, Cross Country Run, Inter Year Table Tennis Tournament, Intersection Volleyball, Throwball, Open Swimming Tournament in the year 2019-2020.



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Students' Major Projects – A Manipal Model for Experiential Learning

With easy access to resources, today's children have ability for self-learning. They look for learning to be fun, hands-on, and experiential. Also, an engineering graduate is expected to have skillset to find solutions to problems of the society. Along with the domain specific knowledge, an engineer needs skills such as: Communication, Leadership, Teamwork, Problem Solving, Planning, Motivation & Enthusiasm, Adaptability & Flexibility, and Ability to Build Relationships.

With highly competitive market, human resource has become a critical resource. Corporates are looking at this resource to start contributing from day one. With knowledge-based economy, today's engineers are expected to demonstrate their ability for lifelong learning. All these mandates engineering education to be experiential, practical, relevant, and up to date.

In India, entry into engineering Institutions is highly competitive. With this, students have built-in competitive spirit. To foster this spirit, in 2007, Institute came up with the idea of 'Major Student Projects', wherein, institute provided infrastructure to build a technical project to compete in an international competition. Such an initiative was 'Formula Manipal', a student engineering project comprising of a group of undergraduate students aiming to conceptualize, design, fabricate, test and race a single seater, open-wheel Formula-style race car. Since its first competition in 2008, the team has participated in competitions in Italy, UK, Austria, Germany, and the Czech Republic.

The success of this has led to initiation of many more student teams. The year 2008 saw the start of 'Team Manipal Racing', off-road racing club to design and fabricate All-Terrain Vehicles according to the rules laid by SAE BAJA. Year 2009, AeroMIT was initiated to design, manufacture, and fly a complex, stable, and pokable model aircraft with minimal empty weight, maximum payload carrying capacity; RoboManipal was started with an aim of taking part in robotics competitions like Robocon. Parikshit Student Satellite Team started in 2010 aims to build nanosatellites. Year 2011 was the beginning of 'Solar Mobil' with an aim of research & development of solar powered electric vehicle. Project Manas, aiming to develop an 'autonomous drive system for vehicles' optimized for Indian road and traffic conditions; Mars Rover Manipal, with a primary objective of building a Rover for University Rover Challenge was established in the year 2014.

Thrust MIT - working in the field of rocketry; R.U.G.V.E.D Systems - A.I. Defense Robotics team; DRONAIID to provide engineering solutions to medical field using Drones; MotoManipal- building environment-friendly Electric Superbike; VISION - engaged in developing AR based applications; S.W.A.R.M - working towards development of Smart Wireless Autonomous Robots; Robotics and Circuits focused towards research and development in the field of robotics; Team Combat Robotics - working on combat robotics; Project AUV working on underwater robotics; Cryptonite - team of cyber security enthusiasts; loopMIT - active on SpaceX Hyperloop, and Manipal BioMachines - working on synthetic Biology are the recent additions to this list.

All these teams are interdisciplinary in nature, having student representation from first to final year. In the process of getting into the team, and selecting the members to the team, students learn to face and conduct interviews. With the team size ranging from 25 to 50, students learn to work in group. By working under tight schedules, they learn to meet deadlines. By submitting Quarterly progress report, scheduling the task and by presenting budget required for the financial year, they hone their documentation, planning and presentation, skills. To generate the financial support, they need to sell their idea to possible sponsors. In the process, they learn the marketing, budgeting, and accounting skills. Thus, with this activity, we have taken the learning experience beyond the classroom.

Projects being innovative in nature, these activities have seen many publications and start-ups coming out of these ventures. Institution also envisages more scope for publication and IPs. To enable this, teams have added a research wing.



You are encouraged to go through the video to get the feel of these activity

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MAJOR STUDENT PROJECTS

Formula Manipal



Formula Manipal, established in 2007, is the official Formula Student Team of Manipal Institute of Technology, MAHE, Manipal. It comprises a group of undergraduate students studying at Manipal Academy of Higher Education, Manipal who aim to design, conceptualize, fabricate, test and race a single-seater, open-wheel Formula style race car. Since its first competition in 2008, Formula Manipal has come a long way. The team has participated in international competitions like FS Italy, FS UK, FS Germany, FS Czech, FS Austria and national competitions like Formula Bharat. Being one of the highly-rated student projects of Manipal University and one of the best FSAE teams in India, Formula Manipal has scaled several heights on the student racing circuit.

The team has evolved into a multidisciplinary organization with students from all branches of MIT participating in making electric & combustion racecars. The team is also working on the development of a Driverless Racecar. The team of 60+ students working around the clock, often partnering

up with Industry-leading companies such as MATLAB, FESTO, Simscale, Ricardo, Altair, Mouser etc. and active interactions with an alumni network comprising of 200+ members across the globe, makes sure that the team members acquire industry-relevant skills with an overall personality development which helps them orient towards a better career path in the future. Apart from these awards and collaborations, the team have also been commended by big names from the world of automotive and racing, such as Claude Rouelle and Michael Royce. Having so much to match up to, the team is full of energy and enthusiasm and embodies the philosophy of our tagline - 'ENGINEERED WITH PASSION.'

The team has published 8 papers in International Journals & 2 papers in Conferences, so far. In addition, the team has also applied for 2 patents titled "Universal Self-Aligning Gear Hobbing Fixture" and "Liquid Specimen Test Container & Method of Testing Liquid".

Achievements in Events:

- The Team is currently engaged in the development of Formula Style Racecars, Combustion & Electric version, for participation in the Formula Student Germany Event during August 2022 and Formula Bharat during January 2023, respectively.
- In the Formula Bharat Virtuals 2022, the team working on the combustion vehicle stood 1st position in the qualifying round of the competition, All India 3rd position in the Design Concept Awards, 3rd position out of 33 teams for the overall combustion category. The team working on the Electrical vehicle stood 1st position in the qualifying round of competition, All India 2nd position in the Design Concept Awards, 2nd position out of 13 teams for the overall electric category.
- In the Formula Bharat Virtuals 2021, the team working on Combustion Vehicle was the winner of Innovative Concept Award in the Business Plan Event, Winner of Best Presentation Delivery in the Business Plan Event, All India 3rd Place in Business Plan Presentation Event, 6th Place out of the 60 competing teams. The team working on Electric Vehicle was the winner of the Ather Energy Software Award for Vehicle Tech and All India 13th Place out of the 23 competing teams.
- FM20 & FM20e, went out to compete in Formula Bharat 2020. The combustion car FM 20 emerged as the Autocross Winners and the team also bagged 2 special awards presented by Ather Energy, Bangalore. Both the cars qualified in Formula Student Austria, Hungary & Czech Republic for the 2020 Season.
- FMX8, qualified and competed in Formula Student Austria. The car bagged 4 awards (1st in Business Presentation, 1st in Acceleration, 2nd in Design Event) in Formula Bharat 2019 along with standing 3rd overall among the 72 teams that participated. For the first time, our Electric car participated in Formula Bharat and stood second in the design event and 3rd overall among 22 teams.
- The season of 2016, FMX6 came 3rd in the Design event at Formula Bharat 2017 after the events at FSG and FS Czech in 2016.
- FMX4, the season of 2014 scaled new heights at Formula Student India-2015 winning seven trophies and making two national records in all, after its show in FSG and FS Czech 2014.
- FMX3 set the tracks blazing at FSG and FS Czech in 2013. With a personal best of 0-75m in 4.51 seconds, the FMX3 was the fastest Indian FSAE car. The team stood 2nd in the cost event at FSG, making Formula Manipal the first Indian team to achieve a podium finish at the competition. It was also the only Indian team to complete Endurance with Electro-pneumatic shifting.
- The FMX1 team, which went to Italy in 2011, stood 16th in the cost event.
- In 2010, the FMX team came 4th in the cost event in FS Austria and was the lightest Indian FSAE car that was also given the award of 'Most Motivated Team'.
- 2009 saw the FM09 go to the UK, where the team stood 10th in the cost report.
- In 2008, the FM08 at Italy, received the Farthest travelled team award.

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SolarMobil



SolarMobil founded in 2011, is the official Solar Car team of Manipal Institute of Technology, MAHE, Manipal, which is a team of passionate individuals who focus on the research and development of solar powered electric vehicles. The vision of the Team is to become a leading student center of research and development in the field of green transportation with a focus on Solar Passenger Vehicles in the next five years. Its mission is to fabricate a high-performance cruiser class Solar Electric Vehicle and at the same time focus on practicality and feasibility of the vehicle for daily use, building upon the success of past projects.

The team manufactures and assembles most of the parts required, in-house. Most of their financing comes from industrial collaborators and these funds are completely dedicated to sourcing parts and tools to build the solar vehicles and cover travel expenses to national and international competitions.

Tata Power Solar, CEAT tyres, LPS Bossard, Wilwood, CF Composites, Delfingen, Gigavac and NTF Pvt. Ltd. are some of the esteemed organizations which have supported them throughout their journey. Their work has been covered by major online and offline publications such as BBC Auto, Times of India, The Economic times and NDTV auto among others.

So far, SolarMobil Team has published 2 papers in international journals and 5 papers in conferences.

They have built four prototypes, so far, namely: Freyr-1, SERVe, SM-S1 and SM-S2.

> Team Achievements

- The team is currently putting their efforts into building a single-seater solar racing car in the Electric Solar Vehicle Championship (ESVC) conducted by the Imperial Society of Innovative Engineers, during June 2022, in the rally spanning over 3,000 kms. from Chandigarh to Pune.
- SM-S2 was invited to feature at the Champions of Champions 2019, Vijayawada and Future Mobility Show 2019, Bangalore by ISIE.
- SM-S1 got 3rd place in Anveshan 2017.
- SM-S1 was India's First 4-seater Solar Vehicle.
- SM-S1 won ASME SLDC 2016.
- SERVe won 1st prize under category UJJWAL in IIT-Bombay Tech fest.
- SERVe won QuESTIngenium 2015.
- SERVe won 3rd Prize at CII India Innovation Challenge among 1500 entries.
- SERVe was India's first 2-seater Solar Vehicle.
- Freyr1 won consolation Prize at Manipal University Innovation day.
- Freyr1 made SolarMobil the 3rd ever Indian Solar Car team to fabricate a solar car from scratch.



> Solar Mobil Team

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Project Manas



Project MANAS, established in 2014, is the official AI and Robotics team of Manipal Institute of Technology, MAHE, Manipal. MANAS as quoted in Sanskrit scriptures means higher intelligence. The project aims to develop an autonomous drive system for vehicles optimized for Indian road conditions. The team is currently working on the development of an unmanned aerial vehicle for participation in the Association for Unmanned Vehicle Systems International (AUVERSI) Student UAS (SUAS) Competition to be held at Webster Field, St. Inigo, Maryland during June 2022.

In 2019, with over 259 applicants across the country from the finest educational institutions and professional start-ups applying for the "Driverless Car Challenge" as a part of Mahindra's Spark the Rise event, Project MANAS qualified several stages of the competition and is proudly among the top 13 teams today which won cash prize of 25 lakhs. The team is the only undergraduate team among the top 13 teams.



As driverless cars gain popularity worldwide, India has a long way to excel in this field. The globalization of this technology has raised questions regarding the safety of the cars on the Indian roads. Tackling problems with smart solutions with diligent work is the key motive of the team. It all began in 2014 when Mr. Kumar Ranjan came across Mahindra's One Million Dollar Challenge in which he wished to participate. The university has been very supportive and has provided a seed fund of 12 lakhs. Mahindra has also provided the Reva e2o on which the technology will be implemented.

Project MANAS was the grand prize winner and won the Lescoe Cup at Intelligent Ground Vehicle Challenge (IGVC) 2019, held in Michigan, USA. Progressing with new ideas and technology, the team aims to build an autonomous UAV and plan to participate in the next iteration on AUVERSI SUAS competition at Maryland, USA.

In 2018, in the IGVC event, the team was placed in 8th position worldwide and 2nd in India.

Project Manas team has published 1 paper in international journals and 13 papers in conferences, so far.



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Mars Rover Manipal



Mars Rover Manipal (MRM), established in 2014, is a multi-disciplinary team of engineering undergraduate students of Manipal Institute of Technology, MAHE, Manipal, working on building a next generation Mars Rover that will work alongside humans and assist astronauts in Mars exploration. The team takes part in an annual competition called University Rover Challenge (URC), organized by Mars Society USA, conducted at Mars Desert Research Station, Utah, USA. The team was started by Atharva Gupta, Saurabh Kumar and Akshay Saxena who developed the rover which successfully participated at URC 2016. The team cleared the Critical Design Review of URC 2016, was in the top 30 teams among 63 from over 12 countries, and the team was invited to the onsite competition held in June 2016. Since then, there has been no looking back.

The team is currently preparing for the event University Rover Challenge 2022 event at USA, to be held during June 2022. The team has been topping the charts in India consecutively for the past 4 years and has maintained under 10 ranking worldwide.

During 2021, the team achieved 3rd position out of 32 teams from 4 countries in the 3rd position out of 32 teams from 4 countries. The team also achieved 4th position out of 32 teams from 10 countries in the European Rover Challenge (ERC) Remote Edition,

jointly organized by The European Space Foundation, Politechnika Świętokrzyska, Urząd Marszałkowski, Województwa Świętokrzyskiego, Specjalna Strefa Ekonomiczna Starachowice and The Mars Society.

During 2020, the team achieved various technical milestones. The mechanical subsystem fabricated a custom 5 bar suspension helping the rover perform way better in ditches. The rover also featured a 3D-LiDAR, which was responsible for significantly improving its autonomous traversal capabilities, making it better than manual drive in many cases. The onboard science laboratory made the conduction of experiments faster and more reliable.

Owing to the excellent rover design, the team has cleared the System Acceptance Review of URC 2020 and stood 7th worldwide. URC 2020 was called off, due to the pandemic. During 2020, MRM also took part in Indian Rover Design Challenge (IRDC), organized by the Mars Society South Asia (MSSA), in the inaugural edition of the event, the team stood 1st among 28 teams from 7 different countries. The competition was first of its kind and saw participation from well-renowned universities like University of Michigan, National University of Singapore, Warsaw University of Technology, Indian Institute of Technology, and National Institute of Technology.

During the 2020 COVID-19 Pandemic, the team finished 1st and 3rd in the maiden editions of International Rover Design Challenge (IRDC) and International Mars Hackathon (IMH) respectively, held by MSSA. MRM also attained incredible scores in the e- Yantra Robotics Competition 2020 held by IIT Bombay. The team navigated the adversities brought on by the pandemic and remotely coordinated and completed the design and manufacturing of the rover for URC 2021, achieving some of our highest qualification scores till date.

Owing to its vast experience, MRM organized the Indian Rover Challenge in 2019, held at Manipal Institute of Technology. More than 150 delegates of 10 teams from 3 countries (India, Bangladesh, and

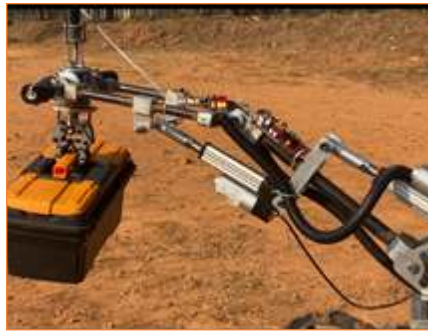
Poland) participated in this event.

The team won the inaugural edition of the Indian Rover Challenge (IRC) held in 2018. It was ranked 8th worldwide and 1st in Asia in URC 2017.

The Research subsystem is actively engaged in making a 7 DOF robotic arm employing inverse kinematics. Since its inception in 2014, MRM has published 12 papers in various conferences. This past year, MRM has filed for a patent titled "Multi-Link Suspension System and Method for Off-Road and Extraterrestrial Exploration Vehicles". The team has undertaken quality research in domains of Deep-fake

Detection, Reinforcement Learning, Natural Language processing, Wireless Sensor Networks, Routing protocols and Swarm Robotics, producing 4 quality papers, all of which have been accepted to reputed Q1 journals and have been presented at some of the world's top conferences including NAACL-2021.


MRM currently boasts its largest ever team, with upwards of 50 members from various engineering disciplines working tirelessly to live up to MRM's motto, "Design to Discover".








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RoboManipal



RoboManipal, founded in 2009, is the official robotics team of Manipal Institute of Technology, MAHE, Manipal. Its 45+ odd members are a fusion of robotics passionate from multiple engineering streams. RoboManipal has been home to some of MIT's best and most innovative minds. The team specializes in robotic technology and works in synergy to continuously learn and effectively apply the acquired knowledge to innovate constantly.

It is currently preparing for the event ABU Robocon 2022, to be held during August, 2022. ROS Manipal of RoboManipal- A Team of MIT Manipal bagged 1st place in Vichesta- the ROS simulation competition category under Takshak2021 (organized by RoboISM-IIT ISM Dhanbad), the largest Robotics Fest of India, with 2500+ participants and 400+ teams from across the country, held during 1 October 2021. This event hosted a variety of competitions, workshops, tech talks, and battle nights during the six days.

Every year, RoboManipal represents the college nationally and internationally in various robotics competitions. The students brainstorm, design, construct and test robots based on unique problem statements derived from multiple fields. The team participates in the biggest robotics competition in

the Asia-Pacific region - ABU Robocon, which calls for multiple robots to work in synchrony in a given area to finish a predefined task in a stipulated period of time. World Robot Olympiad (WRO) is another major competition in which the team participates. This competition gives the team an opportunity to develop their creativity and problem solving skills in a fun and engaging way. It also participates in hackathons like the IICDC, a national innovation Hackathon by Texas Instruments.

Over the years, Robomanipal has represented and won laurels, commendations and has always persevered to improve its outlook and success. Apart from competitions, their members are also involved in many personal projects and are constantly incubating their unique ideas. Fracktal Works, Xes Automation, Virid, Strange Matter, etc., are some of the startups that originated in RoboManipal. The team has also diversified its footprint into the field of research-oriented projects. RoboManipal team has published 4 papers in the conferences, so far.

The team is also working on a series of research projects:

1. Laika – 12 DOF Quadruped: The objective of this project is to develop an agile and dynamic Quasi Direct-Drive Quadruped having 12 degrees of freedom. This project will provide a base for beginners to learn about legged robotics (quadruped) without actually manufacturing the bot. This project will be functional for many years, hence providing a platform to test out different types of software.
2. 6 DOF Serial Manipulator: This project aims to create an affordable, open-source manipulator without compromising its capability. The six degrees of freedom support a vast variety of functionalities and ensure rugged stability while maintaining a considerable level of dexterity.
3. BIPED - Project ATOM: For this project, the team has collaborated with companies and developed the world's first humanoid robot, almost entirely developed by undergraduate students, and is India's

first dynamic Humanoid Robot. By applying a unique technique to managing dynamic robots via reinforcement learning, our robot is capable of human-level mobility, agility, and with a short development time of just one year.

The upcoming projects include:

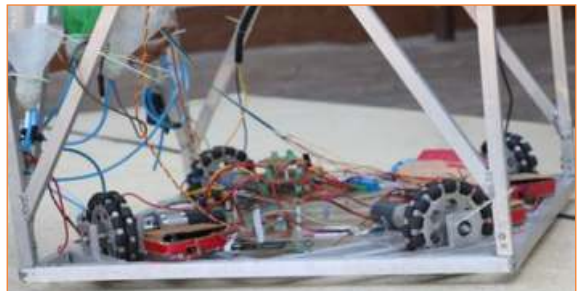
1. Autonomouscatcher: This project aims to create a system that can catch a projectile as it approaches the ground.



2. Segway: This project is Inspired by the Drift W1 segway boots; the aim is to design it in an economically feasible way with an attempt to maintain the same efficiency.

3. Autoturret Bot: It is a bot designed to have the capabilities to aim at any static or dynamic object and shoot at it with minimal human intervention.

The team has come a long way since its inception, integrating innovative solutions for complex problems with the motto: DREAM - BUILD - ACHIEVE.



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MotoManipal



MotoManipal, founded in 2018, is a team of passionate, selfless, and dedicated students from Manipal Institute of Technology, MAHE, Manipal, engaged in developing an efficient and environment-friendly Electric Superbike. The rise in global temperatures and the depletion of the ozone layer has caused a paradigm shift in global concerns for humanity's future. MotoManipal hopes to do its bit for the environment and is inspired to build a vehicle based on different technologies using power cells and Battery Management Systems, making it a rich tool for R&D in order to help shape the future of clean transport technologies. As a unified team of passionate and enthusiastic young students, we are determined to create a world-class superbike. Moto Manipal is focused on conducting research in various aspects of EVs and aims to participate in national and international competitions. MotoManipal Team has published 3 papers in the conferences, so far.

The team has finished as the Overall Winner and Best Business Plan award in the E-Bike Design Competition, Season-1 competition organized jointly by Sri Ramakrishna Institute of Technology, Coimbatore, and Mechatron Motors, during April 2022. The team is currently building an electric race bike to participate in MotoStudent India-Electric, which is to be held at the Kari Motor Speedway, Coimbatore in 2022. The team has also registered for the bi-annual Moto Student International-Electric to be held at Aragon, Spain in October 2023 and will be one of the first

Indian teams to participate in this prestigious event.

MotoManipal also took part in the FMAE National Online E-Bike Design Competition, Season-2, in March 2021 and secured the First Position again, thus defending our crown. In October 2021, we achieved a podium position in NOEBDC Season-3, thus maintaining our strong showing in the competition.

Amidst the Coronavirus pandemic, the team participated in the National Online E-Bike Design Competition, Season-1, in September 2020 and was declared Champions. Moto Manipal is one of the few teams to make the most out of the pandemic by winning two back-to-back championships.

MotoManipal participated in the Asian E-Bike Challenge - 2019 in the month of September at Vishakhapatnam, Andhra Pradesh, where 35 teams from all over India participated. MotoManipal secured prizes in the following categories:

- Best Commercial Bike (Winners)
- Best Aesthetics and Ergonomics (Winners)
- Best Innovation (Winners)
- Best Innovative and Cleanest Pit (Winners)
- Engineering Design (Runners Up)
- Business Plan (2nd Runners Up)

We were featured in the esteemed daily - 'The Times of India' for our exceptional performance. Additionally, renowned newspapers such as "Deccan Herald" and "Prajavani" also featured the team for the same.

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Team Manipal Racing



Team Manipal Racing, established in 2008, is the official Off-road racing team of Manipal Institute of Technology, MAHE, Manipal. Every year our goal is to design, manufacture & test an ATV (all-terrain vehicle) to participate in collegiate competitions organized by institutions like SAE. We apply concepts of engineering design, analysis & manufacturing that we learn in class in the real world.

TMR took up its first project, V1 which participated in SAE BAJA held in Wisconsin USA in 2011. It was the first Indian team to qualify for the competition and one of the two teams representing Asia. From V1 to V12 Team Manipal Racing has come a long way in making efficient and light weight ATV's. Each team in the competition works as a pseudo company and is judged on the basis of various static and dynamic events. Our team is split into subsystems, wherein different members would specialize in different aspects of the ATV, as a matter of shared responsibility. Every season we start off by considering the decisions which worked out well for the previous year, and also the ideas which would need further development. All of our ideas come together after rigorous planning. We start off by designing of all the custom parts for the buggy. After

multiple iterations and analyzing the part virtually for real world situations, we start fabricating. A large chunk of fabrication is done in our well-equipped college workshop itself, including the chassis, using various tools and machines. Over the years as the team collects data and upskills itself we are able to fabricate more of the vehicle inhouse using innovative techniques.

A lot of calculations go into the selection of parameters which govern the design. Taking it a step further, we have used Data Acquisition systems to retrieve data on a live car, to co-relate with our calculations, and validate them. This cycle repeats every year with new ideas and new challenges. It's not just a race on track, these collegiate design competitions are a much bigger race off track in terms of design.

From the year 2022, the team is starting a full electric power ATV team along with their combustion-based ATV, which brings more opportunities and areas of study. In the online event hosted by mBAJA SAE India during 2022, the Combustion team stood 28th overall out of 132 participating teams, while in the eBAJA (Electric) SAE India contest, the Electric team stood 3rd overall position out of 76 teams that participated. The Combustion Team participated in m-BAJA event organized by SAE India at Pithampur, MP during April 2022 and stood 2nd in Manufacturing & 3rd in Endurance category, out of 81 teams participated. The Electric Team is currently focusing on the fabrication of ATV for the physical event of eBAJA to be held during June 2022, at Pithampur.

The Combustion team of Team Manipal Racing V11 officially ended its thirteenth season bagging achievements at online mBAJA (Combustion) SAE India event, April 2021. Out of 150 colleges participating in the event, the team has secured 17th in design evaluation, 12th in manufacturing report presentation, 28th in sales presentation and 21st in CAE presentation. In the eBAJA event, the electric team stood 4th in Preliminary, 20th in Design Evaluation, 5th in Cost, 14th in Manufacturing 9th in

Sales, 16th in Computer Aided Engineering bagging 9th Overall.

Team Manipal Racing's V10 officially ended its twelfth season bagging achievements at BAJA SAE India NATRAX, Pithampur, MP in Jan 2020 where the team has secured 25th in overall statics, 6th in acceleration, 11th in business presentation, and at Enduro Student India, Feb 2020 where the team secured 5th overall, 2nd in business presentation, 3rd

overall dynamics. The team also participated in the SAE BAJA International, Louisville, KY, USA in a virtual event and secured 19th in design report evaluation and cost presentation, and 25th overall.

The team has published 2 papers in the international journals, so far. The team has also applied for a patent titled "Dual Stage CVT: Engaging a higher bandwidth of Gear Ratios with minimal weight addition and maximize performance".



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AeroMIT



AeroMIT founded in 2009, takes immense pride in being the official Aeromodelling and Autonomous Aerial Robotics Team of Manipal Institute of Technology, MAHE, Manipal. They design and fabricate UAVs for various research and competitive applications.

The AeroMIT team consists over 30 interdisciplinary undergraduate students whose primary focus is to dive into the world of flight. Over the years, the Team has carried out extensive research and analysis and have had many significant achievements. Some of the projects completed in the past are Autonomous Flights, Vertical Take-Off and Landing aircraft, High Payload Flights, Object & Image Recognition and Blended Wing Body Aircraft.

AeroMIT consists of 5 interdependent subsystems;

1. The Advanced Drone Research does extensive work on various Autonomous Unmanned Aerial Vehicles having numerous real-world applications. The culmination of this research is the implementation of machine learning alongside cutting edge image processing technology.
2. Aerodynamics designs RC aircraft for various mission specifications utilizing the strong fundamentals of aircraft design philosophy and aerodynamic concepts. It is also tasked with documenting the design process of every project the Team undertakes.
3. The Inquisitive and innovative students of the Research and Development subsystem bring their prowess to the table through innovation and fluid thinking. These novel ideas are then implemented to solve real-world problems.
4. Structures and Composites are the highly skilled workforce that builds aircraft designed by Aerodynamics. Materials used in builds include fibre-reinforced polymers like carbon fibre, glass fibre, and hybrid fabrics.
5. Finally, Management ensures the smooth communication, coordination and collaboration of the Team through intelligent and efficient logistics handling. In addition, Management deals with the social media and finances of the Team, while simultaneously acquiring sponsorships from a vast network of industry contacts.

Every year AeroMIT takes part in the SAE Aero Design competition held in the USA. The team has achieved World Rank 2 overall, 1st rank in the Written Design Report, 2nd rank in the Mission Performance and 2nd rank in the Oral Design Presentation at SAE Aero Design 2022 West, a competition organized by SAE International at Van Nuys, California during April 2022.

In the online Aero Design Challenge 2021 organized by SAEISS (Society of Automotive Engineers India Southern Section), the team stood 1st position in the application report, out of total 48 teams participated. In the online SAE Aero Design event by Intl. SAE Aero Design, USA during 2021, the team stood 2nd position in the Oral Design Presentation and 5th position in the Written Design Report.

In the 2020 season, the Team secured 1st in the Technical Presentation with an overall world rank of 4. Prior to this, they have also achieved a worldwide rank of 5 and 7 in the 2019 and 2018 editions respectively. The Team also takes part in other national-level aeromodelling and flying competitions held at Sahyadri College of Engineering and IIT Bombay. Finishing at podium positions in the 2019 and 2020 editions respectively.

SkyRush- Only Aeromodelling and Flying competition held in Manipal, is also carried out by AeroMIT annually. This event saw participants from all over India and required them to build an RC Aircraft befitting to a Problem Statement that was released in advance. AeroMIT continually strives to evolve and achieve the unthinkable through their pioneering work in the field, taking forward a legacy built on the sole objective to Fly High.



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Parikshit



Parikshit Student Satellite Team was formed in 2010 with 40 student members from across the departments of Manipal Institute of Technology, MAHE, Manipal. Their aim was to explore the fields of space science and work on experiments that could be performed in space. It was a brave thought, an ambitious venture, and a daunting task, but the team forged ahead doggedly. Nanosatellite, or nanosat, is a relatively recent term used to describe artificial satellites with a mass of 1 to 10 Kgs. The term "nanosatellites" was introduced by NASA at around 2004. Nanosatellites are appealing because of their small size which makes them affordable and opens up the potential for a swarm of satellites. From a military perspective, nanosatellites may be useful due to the redundancy it could offer.

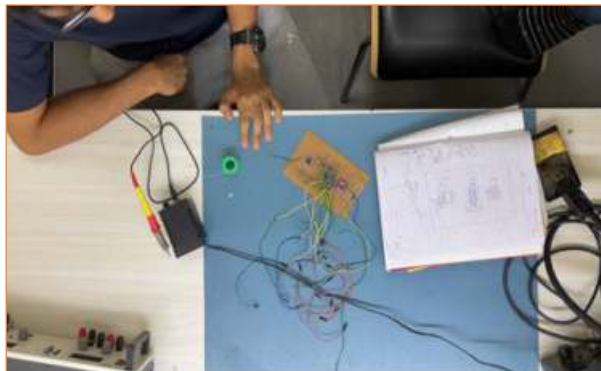
Parikshit's satellite has two payloads. The primary payload is a thermal camera. A regular camera works in visible light; a thermal camera creates images using infrared radiations in a similar fashion. The second payload in the satellite is an electrodynamic tether. A tether is basically a long conducting wire which operates on electromagnetic principles. Current in the reverse direction will lead to the satellite de-orbiting. The team is divided into seven subsystems – Attitude Determination and Control,

Communication and ground station subsystem, Electrical Power Subsystem, On-board Data Handling subsystem, Payload, Structures, Thermals and Mechanisms and Management




The major domains of research undertaken by the project are in-house design and testing of all onboard mechanisms, Attitude Determination and control algorithms of satellite, Power management algorithms, Thermal control of sensitive components, sensor technology.

MIT student Adheesh Boratkar represented the University for testing Parikshit's Tether Deployment System in a zero-gravity parabolic flight at NASA. The team got a total of four flights of 30 parabolas in Zero-G to experiment with the payload; deployer testing is a crucial phase, and to do it at NASA was a great achievement for the team. At present the team is about to go for environment test and qualification model review. After the successful completion of the same, is likely to hand over the final flight model to ISRO soon. Parikshit makes it easy to believe that Manipal students not only aim for the sky but are just as capable of reaching it.

Parikshit Team has published 52 papers in international conferences, so far.



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thrustMIT



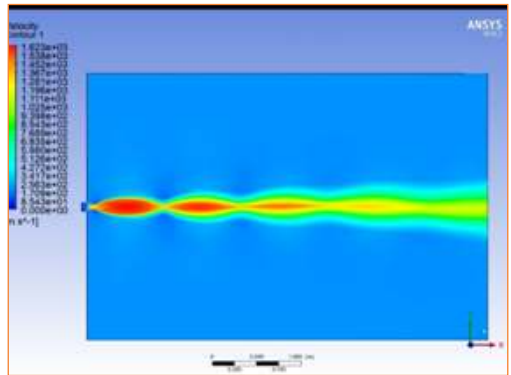
thrustMIT Team, established in 2016, is Asia's top student-run rocketry team in Manipal Institute of Technology, MAHE, Manipal, that builds sounding rockets to promote the passion and knowledge of high-powered rocketry in India. We aim to participate in the largest rocketry competition in the world, Spaceport America cup, held at Spaceport, New Mexico every year, which happens to be the biggest platform in the world for UG and PG students to showcase their Rocket Engineering skills. The competition also sees active participation from major aerospace companies.

From day one, the Team is doing what it does best, working to promote, spread, foster, and bring about technological innovations in the ingenious field of rocketry. The Team has come a long way since its inception and is continuously working towards perfection. What initially started as a group of 6 amateur rocket enthusiasts has now grown into a well-oiled team of more than 40+ Under-Graduate students working on continuous research and development of our current prototypes. We also engage in research and development and aim to obtain patents and publish scientific papers on various topics related to rocketry and are on the verge of creating the most powerful sounding rocket motor in India.

The Spaceport America Cup 2018 saw the debut participation of thrustMIT. The Team won the Spot award for the design of the rocket. We participated in the 10000 ft. category and used a COTS (Commercial of the Shelf) rocket motor. thrustMIT launched its first sounding rocket Vyom, (standing 8ft tall and weighing 26kg), at the competition in 2018. The rocket, which was entirely made in-house, reached an apogee of 4000 feet, moreover, was recovered successfully.

The team is currently engaged in the preparations for participation in Spaceport America Cup 2022, to be held during July, 2022. In 2021, the team participated in the Virtual Spaceport America Cup 2021 with the rocket Phoenix and stood 7th position out of 36 teams participated in the COTS category. The thrustMIT team has published 2 papers in the international journals, so far.

In 2019, our rocket Arya (8.2 ft tall and weighing 24 kgs) performed in the 10000 ft. COTS category and we were able to secure a spot award for Team Professionalism. Arya carried a functional payload used for testing vibration and damping effects of a non-Newtonian fluid using a MEMS accelerometer.



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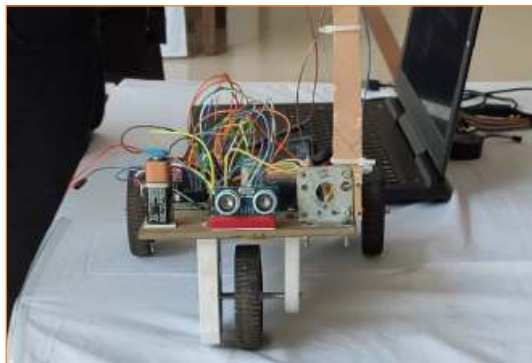
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Robotics and Circuits



Robotics and Circuits, popularly called as RnC Team, founded in 2010 is focused towards research and development in the field of robotics in Manipal Institute of Technology, MAHE, Manipal. With an ardour for teaching and a penchant for breathing life into novel ideas, the term "Engineering Creativity" is an apt description of the team that looks to make strides in robotics research. The members of the team stride to integrate their classroom knowledge with their creativity to make projects, in the field of robotics, which would leave an impact on the society.

Our team has a threefold vision EXPERIENCE, EXPLORE & INNOVATE. We ensure hands on experience in robotics and its allied fields to complement our course work and bridge the gap between imagination and innovation.

Our team has identified two competitions 'Virtual RobotX Challenge' and 'RoboCup Rescue' as the International Competitions we shall work continue to work towards in the long run. The team shall also focus on acing 'Micromouse Challenge' and 'E-Yantra Robotics Competition' by IIT Bombay. Being the Research and Development team of MIT, our aim is to develop and build project ideas that could be future market opportunities. The field of 'Automation', more precisely, 'Home Automation' has been identified as the research domain. We also consider participating in Hackathons around the country to maintain regularity and gain valuable experience. We hold

internal and external workshops round the year to educate our fellow students and introduce them to the world of robotics and allied fields.

Vedanth is RnC's annual technical exhibition and innovation contest where our members present their technical acumen and the project which were made all around the year, the contest is open to engineering students all over the nation. In the recent year, at Vedanth 9.0, we saw some great projects by our students, some of which are focused to solve major problems of the society. We displayed innovations like "Technofarm", a robot to help farmers analyse their crop quality, while "Cerebro", the mind-controlled wheelchair, designed to help the paralysed. The winning innovation of Vedanth 9.0 was another RNC project, the "Friction Profile Generator" for its highly accuracy results.

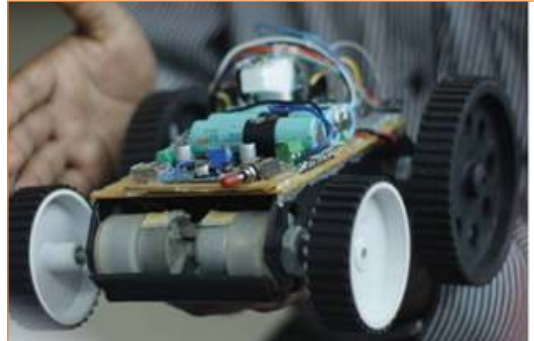
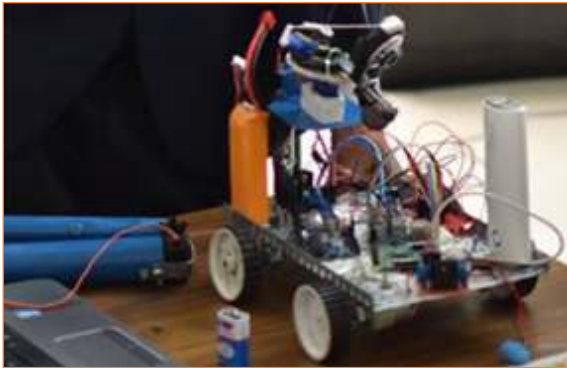
Despite covid, RnC successfully organized Vedanth 10.0 online where teams from across the country participated virtually. We displayed innovations like "University Companion Bot", an app to help students and teachers with attendance and other related work, while "Non-Touch Biometric App" was used to mark student's attendance in hostels with Facial Recognition. The winning innovation of Vedanth10.0 was another RNC project, the "University Companion Bot" for its highly accuracy results.

Currently, the team is engaged in training their junior team members, for the online event "Virtual Robotics", to be held during the next season.

In 2021, the technical fest of MIT – 'TechTatva', didn't happen. Nonetheless, the team made three projects for the same and uploaded simulations for Vedanth 11.0 on our website. "Automated Luggage Handling System", "ACE Drone" and "Micro-disinfecting Bot" were the three project ideas which stand true to our purpose of developing future market opportunities. 'Automated Luggage Handling System' is a revolutionary idea which is completely autonomous and reduces the time taken for the luggage to arrive, at the pick-up point, significantly. It also reduces the

chances of any belongings being damaged or misplaced. 'ACE Drone' is a terrain mapping quadcopter using SLAM technique and traversing in any environment. 'Micro-disinfecting Bot' is semi-autonomous robot that will spray repellents or pesticides or disinfectants in the easily inaccessible areas of a room or a 4-walled structure. The team continues to build on these ideas and conduct advance research on the same. Robotics and Circuits has been featured in various media platforms both online and offline like Times of India, for the projects done by our members.

The team has published 1 paper in the international journal, so far.



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Project Vision



Project Vision is the first and only VR/AR student project in Manipal Institute of Technology, MAHE, Manipal. Our project deals with creating a wide variety of VR/AR apps for multiple platforms including but not restricted to the Oculus Quest 2, Mobile app development

Established in 2018, what was once started by two friends as a simple endeavor to understand and learn about this new technology, Vision is now a team of 30 members working on developing a Virtual Positioning System by integrating Machine learning and Augmented Reality.

The ultimate aim of the team is to develop its very own AR headset (something like the HoloLens or the Google Glass) that has a basic operating system of its own and apps that are powered by custom hardware designed by the students.

The team participated in the International AR VR online competition during April 2022, and the results are awaited. The team members have participated in numerous hackathons, one such virtual event was "Hack of Pi", where we have managed to reach the quarter finals with our app EduAR. It is an AR app for

visualizing complex educational concepts by projecting 3D models in AR

We at Vision know, the pandemic has disrupted lives of numerous people and has impacted them in unimaginable ways, keeping that in mind, the student-run project has been working on such projects, which impact the lives of people in positive ways and help fight the pandemic from their home

The team is currently working towards participation in a Swedish based VR competition where they will build a nature experience for the OCULUS QUEST 2. With this project we plan to give the user an experience of being amidst the beauty of nature, when he/she puts on the headset at home. This would help improve mental health in times when we can't really get out of our house due to ongoing pandemic.

The team members are planning to participate in Image Processing competitions and Unity creator challenges from next year after developing the VR app.

The team has published 2 papers in the conferences, so far.




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R.U.G.V.E.D

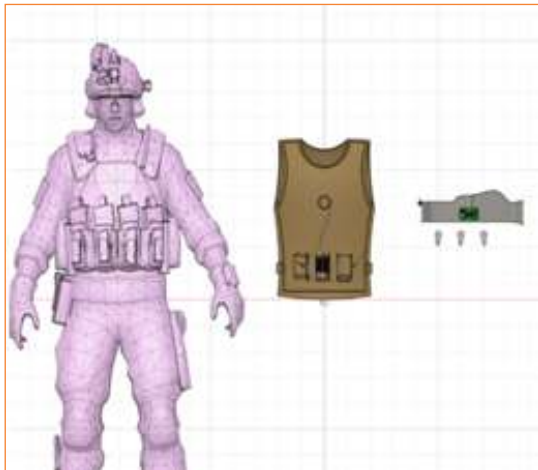


R.U.G.V.E.D. Systems stand for Remote Unmanned Ground Vehicular Electronic Defense Systems, founded in 2017, is a multi-disciplinary team of highly motivated undergraduate students of Manipal Institute of Technology, M.A.H.E., Manipal. focused on constructing various robots for military defence and law enforcement applications powered by multiple cutting edge technologies. Striving for excellence in this field, we conduct research on the deployment of robots for intelligence gathering, ordnance disposal, logistics, and search and rescue as well as combat operations. Our primary competition is the Annual Intelligent Ground Vehicle Competition (I.G.V.C.) held at Oakland University, Michigan, U.S.A, and We have secured 8th position worldwide in the design challenge of I.G.V.C., 2018.

Since the team's formation, the team has consistently performed spectacularly by winning a multitude of event such as the National level Tata Pioneer's Makerthon - UAV Challenge at the Techfest

2017 I.I.T. Bombay, designing an Auto-Leveling UAV Launchpad and again in 2018. Members from the team won 2nd place in G.M.E.Ford Hackathon, 2020. Prominent companies such as Nvidia, National Instruments, Sick, SBG Systems, Ansys, etc have contributed to the team by providing sponsorships. Currently, the team is working on their flagship project, W.A.L.R.U.S, an autonomous reconnaissance vehicle that can traverse on land and houses a detachable drone for aerial surveillance which can scout for enemy targets and topology observation to generate a detailed map to get a lay of the land. They are currently conducting research in the fields of Artificial Intelligence, Electric Vehicles, renewable energy, agriculture and will publish several papers and gain patents in the upcoming months.

Rugved Systems Team has published 1 paper in international journals and 3 papers in conferences, so far.



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Manipal BioMachines



Manipal BioMachines, founded in 2020, is the official synthetic biology and genetic engineering student project of Manipal Institute of Technology, MAHE, Manipal. The team strives to address pressing global issues by designing and building long term, efficient and environment-friendly solutions using their knowledge in the field of bioengineering.

Being the only project that explores the applications of engineering and biology together, Manipal BioMachines allows students to innovate alternate solutions to problems that could not be solved by conventional engineering or biological techniques.

Vision of the team is to make the world a cleaner, greener and a safer place to live in. Compete in the annually held iGEM (International Genetically Engineered Machine) competition amongst other Hackathons/Innovation Fests and other synthetic biology competitions to give a platform to our ideas.

Mission of the team is to select a new problem statement each year and in efforts to bring out new and innovative solutions for the betterment of the society.

The team is currently engaged in preparations for iGEM Indian League online event to be held during August 2022 and iGEM International event during November 2022.

The team of 2021 was also placed in the top 10 teams in the Manipal Biotech Hackathon'21. The team of 2021 participated in iGEM and was one among 90 iGEM teams awarded \$2500 grant. Out of 350+ Teams participated that participated the team was one among the Bronze Medal Winners in the Undergraduate Category.

For 2021 – Our aim was to make an overall sustainable alternative to traditional chemical pesticides that is modular in nature through synthetic biology and genetic engineering.

Our project for the year was titled Cell-Tinel. We worked together in the field of synthetic biology and genetic engineering to find a way to curb the problem of stem borers in rice by using a novel approach!

This problem is a huge one because it can't be solved by traditional means like pesticides, and would

require a more sustainable approach that can avoid genetically modifying the plant. If we succeed, we will be able to improve rice yields significantly and aid the backbone of our primarily agrarian country: our farmers.

The team intends to use a biopesticide delivery system that involves endophytes- the naturally occurring microbes that live in synergy within plants without harming them. Our target bacterium is *Bacillus subtilis*, which shall be engineered to produce a proteinaceous toxin, commonly known as a cry toxin. The main aim is to prime the plant's immune system against a wide spectrum of pathogenic activity and employ a novel mechanism for the bacteria to

produce the toxin only upon ingestion by the pest. The impact of this approach would immensely benefit an agrarian economy like ours and those of countries plagued by the pest, thereby improving farmer lives.

For 2020 - Our aim was to genetically engineer a bacterium that will be capable of converting methylmercury and other organic mercury compounds into elemental mercury in conditions prevalent inside the human gut. Hence provide a proof of concept for the use of such engineered bacteria for probiotic applications. In the Virtual Giant Jamboree Event, by iGEM 2020, the team was one among the Gold Medal Winner in Undergraduate Category.




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loopMIT



loopMIT, established in 2019, is a dedicated team of undergraduate students of Manipal Institute of Technology, MAHE, Manipal, from various fields of engineering working on designing, developing and building a sub scale prototype transport vehicle known as the Hyperloop Pod. The primary objective of the team is to partake in the "SpaceX Hyperloop pod design competition", where a number of student teams from across the world participate to demonstrate the technical feasibility of various aspects of the Hyperloop concept. We aim to be the first Asian team to enter the competition with a levitating pod.

A Hyperloop is a mode of passenger and freight transportation, used to describe an open-source

vacuum tube train design released by a joint team from Tesla and SpaceX. Hyperloop is a sealed tube or system of tubes through which a pod may travel free of air resistance or friction conveying people or objects at high speeds efficiently, drastically reducing travel times over medium-range distances.

The concept was unveiled in 2013 by Elon Musk-founder of SpaceX and Tesla, in which he proposed a "fifth mode of transport" comprised of pressurized capsules riding on an air cushion driven by linear induction motors and air compressors. In 2015, a design competition was announced for teams to build Hyperloop pods to operate on a SpaceX sponsored track. If successful, this would revolutionize the field of transportation across the world. The team has published 4 papers in the international journals, so far.



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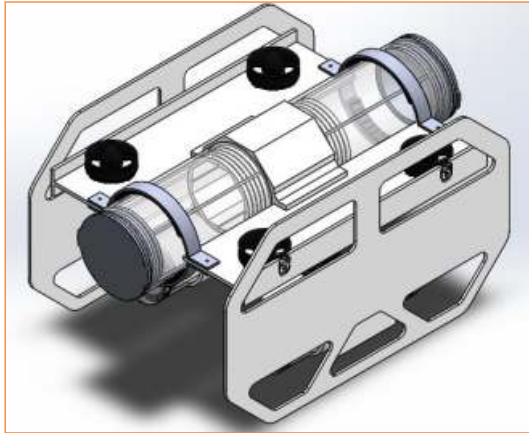
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Project AUV



Established in 2019, Project AUV Manipal, Manipal Institute of Technology, MAHE Manipal is the official student team consisting of group of individuals brought together having a common interest in developing the Autonomous Under water Vehicle (AUV).

We aim to conceptualize, design and fabricate Remotely Operated Vehicles (ROVs) and Autonomous Underwater Vehicles (AUVs) for both research and competitive purposes.

AUVs are self-guiding and self-powered vehicles, making them attractive options for industries and fields of study that require venturing into depths not accessible to humans, such as ocean-based research. They can be configured with different sensors and communication systems to provide real-time information back on land or to a ship over the horizon. The challenge remains to make AUVs intelligent enough to perform their tasks, identify problems, and adapt to different situations.

Our prime focus in terms of research is development of autonomous vehicles and systems for defense applications, marine propulsion systems, usage of navigation systems for digital twinning, applications of metal matrix composites, under water photogrammetry and object modelling using cameras.

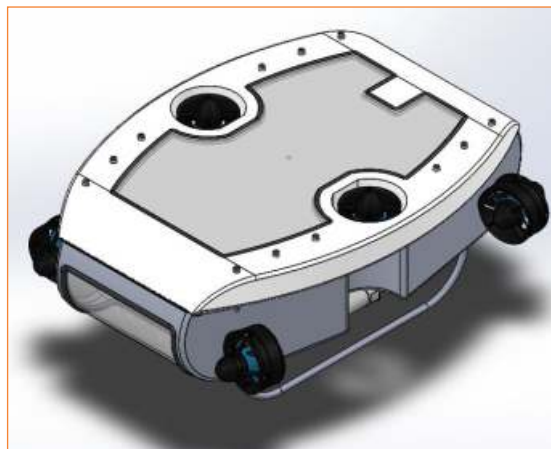
Currently, the team is engaged in the preparations for the flagship competition Robonation's RoboSub 23, an international underwater robotics competition held in the United States of America. The problem statement given encourages us to further our research effort in the field while inculcating industry-level practices and professionalism. The behaviors expected of these experimental AUVs mimic those of real-world systems, currently deployed around the world for underwater exploration, seafloor mapping and sonar localization, amongst many others. Using the state-of-the-art tools and technology, the various subsystems have been working on the design and fabrication of our AUV and aim to have the first iteration manufactured by the end of 2022, in preparation for RoboSub 2023.

We also participate in SAUVC, a primary underwater robotics competition held in Singapore.

The team is divided into 4 sub-systems, namely – Mechanical, Electronics and Electrical, Artificial Intelligence and Coding, and Management.

In a short span of time, the team has seen tremendous growth in terms of knowledge acquired and imparted, and further aims to put this knowledge to good use and strive for greater heights in the years to come.

In the Flipkart Grid Challenge held during 2022, the team stood one among 50 out 1000 teams qualified for 2nd round.



> Project AUV Team

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Team Combat Robotics



Team Combat Robotics, founded in 2018, is a team of enthusiast undergraduate students from different factions of engineering in Manipal Institute of Technology, MAHE, MAHE, working on building efficient combat capable robots. TCR has built the first horizontal bar spinning robot in southern India. Working with different sub-system, TCR manages to design, built and put together mechanical and electrical aspects of the bot in its own workshops. The vision of the team is to build the best bots, cause no unnecessary harm and to compete in various national and international robotics events held in India. Its mission is to be one of the technical student projects to design, fabricate and manufacture innovative combat robots and at the same time focus on the practicality and feasibility of the bots in the combat arena.

TCR has built bots for 3 event catalogs: RoboWars, RoboSoccer and RoboSumo, and participated in various events annually.

- The team participated in BITS Pilani Quark 2019 and made it to the quarter finals in the RoboSoccerevent.
- In the 2019 MIT TechTatva the team reached semi semi-finals.

- The team has also participated in IIT Bombay Tech Fest.
- The team also participates in various local college tech fests around Manipal.

Builds:


TCR has managed to build several arena ready robots, that are strategically built with defensive and offensive features to ensure a thrilling match in the arena. The catalogue includes robots for:

RoboWars: Buffed and equipped with weapons, these metal piercing giants are designed sturdy for pure destruction and built to take a beating.

- Trigger: 45kg bot, equipped with a powerful drum weapon and an anti-wedge design, capable of lifting the opponent bot and feeding it to the drum spinner.
- Alpha Raptor: 40kg bot, equipped with a horizontal spinner weapon capable of delivering greater impact force.
- Viper: 30kg bot, has a zero-ground clearance knife edged wedge design.
- Aura: 15kg bot, equipped with a drum weapon powered by a propeller drive. It is the first wireless operable bot by TCR.
- Shadow: 15kg bot, equipped with a single tooth vertical spinner, and operable wireless through a RF controller.
- RoboSoccer: Sleek and light bots, designed for swift movements to tackle the opponent, control the ball and score a goal.
- Dark: 5kg bot, with a kick mechanism and operated wireless through a RF controller.
- Aryan: 5 kg bot, with a catch mechanism and operated wireless through a RF controller.
- RoboSumo: Tactical bots, built to hold one's ground and strategically through the opponent off balance.
- Nitro: 5kg bot, with a push mechanism and operated wireless through a RF controller.



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Cryptonite



Cryptonite, founded in 2018 is the official ethical hacking and cybersecurity team of Manipal Institute of Technology, MAHE, Manipal. We focus our work in the fields of attack-defense, cryptography, cyber forensics, reverse engineering, binary exploitation and web exploitation. As a team, we strive to develop a keen interest in cybersecurity and to provide a conducive environment in order to hone the necessary skills required not only to compete in CTF (Capture the Flag) competitions with teams from all over the world throughout the year but also to carry out research.

We follow a three-stage development process for every recruit, the initial stage being an in-depth understanding of traditional methods and techniques, followed by their application and finally, we encourage them to incorporate other fields of science with cybersecurity.

The team is planning to participate in multiple national & international CTF events, in the near future. Cryptonite secured a national rank of 12 across all categories and 7 amongst academic teams on CTFtime for the year 2021. Some of our achievements which contributed to this ranking are mentioned below.

- Secured the 3rd place in Loki CTF 2021
- Amongst the top 15 teams from India which qualified for CSAW'21 Finals and went on to secure the 13th position in India in the finals.
- Placed 24th in the qualification round of Inctf and went on to secure the 31st rank in the finals.
- Placed 2nd in India in ASIS CTF Finals 2021
- The team hosted niteCTF - A 48hrs CTF competition which was rated 22.30/25 on CTFtime
- niteCTF is a flagship event of Cryptonite which saw 1200+ participants from 43 countries including 27 university teams. Teams from UIUC, UD, Delaware, and FIT, Florida were also in attendance.

Team has published 1 paper in the international journal and 8 papers in the conferences, so far.

Our Reverse Engineering Head, SohomDatta was rewarded 3133.70 USD/ (~2 lakh INR) for identifying a bug in one of Google's front-end open source libraries as part of Google's Vulnerability Rewards Program. The Google Vulnerability Rewards program is a global initiative by Google to reward external contributors and security researchers that help in keeping their users safe.

Research in Cryptonite mainly focuses on cybersecurity and machine learning. Domains include privacy-preserving machine learning, Federated Learning, selective encryption and differential privacy are also being worked on.

Cyberbullying has become one of the most pressing concerns for online platforms, putting individuals at risk and raising severe public concerns. Recent studies have shown a significant correlation between

declining mental health and cyberbullying. Automated detection offers a great solution to this problem; however, the sensitivity of client data becomes a concern during data collection, and as such, access may be restricted. This paper demonstrates FedBully, a federated approach for cyberbullying detection using sentence encoders for feature extraction. This paper introduces concepts of secure aggregation to ensure client privacy in a cross-device learning system.



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Dronaid



Dronaid, founded in 2017, is a one-of-a-kind student project initiated in Manipal Institute of Technology, MAHE, Manipal with an effort to make healthcare more accessible and hassle-free in India by means of incorporating artificial intelligence (AI), Unmanned Aerial Vehicles (UAV) and app development in building a network of healthcare systems and bring about practical clinical applications in accidents and emergency services at the community level.

In recent years, use of Unmanned Aerial Vehicles (UAV) have shown transformative results in the field of farming, defense and energy production. Recognizing this development and in efforts to take it a step further, Project Dronaid was initiated, in a unique collaboration between the students of Manipal Institute of Technology and Kasturba Medical College.

The team is dedicated towards building an "Autonomous Drone System" (using an Artificial Intelligence (AI) configuration/interface) that not only navigates on its own but also can make important in-flight decisions like determining shortest route and terrain assistance. These independent drones can then be integrated into what we call a "drone network".

Applications:

- As a transport vehicle: To carry small loads like oxygen cylinders, drug kit with essential drugs, blood and IV fluids in appropriate containers to satellite areas.
- First aid kit with user manual or onboard instructions via webcam.
- Tourniquets to stop bleeding or inflatable splints to support fractured limbs, cervical immobilizers for trauma patients.
- Monitoring and procurement of water or air samples, for research in the field of public health.

What makes this project so unique?

- There is active research being carried out worldwide to integrate Artificial Intelligence and medicine and success of Dronaid will be a significant milestone in the same.
- Searching for solutions in the field of public health, which could boost up the status of the existing National Health Policies in practice, saving precious labor and financial resources.
- Monitoring of the trends of various seasonal diseases could be carried out more efficiently, hence enabling a prompt and effective administration of preventive public health measures.
- An overall improvement in the healthcare services provided



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S.W.A.R.M ROBOTICS



S.W.A.R.M Robotics, established in 2017, the team in Manipal Institute of Technology, MAHE, Manipal, is to make a collective of multiple autonomous entities which are virtually independent of each other but interact and communicate with each other to reach a common goal, which may be simple tasks like mapping an unknown environment or complex tasks like performing search and rescue tasks in high risk environments, hereby reducing the risk to human life.

Currently the team is working on advanced sensors and drivers being used by the team as a test bench for research in the field of autonomous swarms with a focus to make them more efficient and faster.

The team has published 2 papers in the conferences, so far.



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Techtatva

National Level Technical Fest at MIT, Manipal

TECHTATVA



YOGA@MIT, Manipal

In strict adherence to the Covid-19 precautionary measures at MIT, the International Yoga Day 2021 was conducted online. This was organised on MS Teams and relayed live to MAHE and its constituent institutions on June 22nd 2021 from MIT Manipal. The resource person was Mrs. Anu Sampath who is a well versed Yoga therapist and expert at the Bangalore based company "healthifyme". She is presently working with 200 patients from India, United Kingdom, UAE to name a few.



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