Ingenuity
A COMPENDIUM ON STUDENT CLUBS
MIT, Manipal
REVELS
National Level Cultural Fest at MIT, Manipal

At MIT an enormous amount of work is done by the student council which coordinates and is responsible for the functioning of approximately 30 technical clubs, 20 major student projects and 30 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, i.e., the 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 a 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 individuals 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 relationships 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 platforms 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

FROM THE DIRECTOR’S DESK

Ingenuity - A compendium on Student Clubs

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 the 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 have 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 30 technical clubs, 20 major student projects and 30 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
ACM Manipal Student Chapter

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
Name: Dr. Shrikant Prabhu, Dept. of Computer Science Engineering
Contact number: 94484 84506
E-mail: srikanth.prabhu@manipal.edu

Event
A Workshop on Introduction to Reinforcement Learning

Official Club Email
acm.manipal@gmail.com
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
Name: Dr. Shrikant Prabhu, Dept. of Computer Science Engineering

Contact number
94484 84506

E-mail
srikanth.prabhu@manipal.edu

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 mentorship at every step in their path. We are a research-centric group, striving at inclusion and domain-depth.

Faculty advisor
Dr. Srikanth Prabhu, Associate professor, Dept. of C.S.E.

Contact number
94484 84506

E-mail
srikanth.prabhu@manipal.edu

Major achievement /event held during the year 2019-20
Tech-o-talk

Official Club Email
acmw.manipal@gmail.com
ACM-W Manipal
Domain
ACM-W supposes, 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 mentorship at every step in their path. We are a research-centric group, striving at inclusion and domain-depth.

Faculty advisor
Dr. Srikanth Prabhu, Associate professor, Dept. of C.S.E.

Contact number
94484 84506

Major achievement / event held during the year 2019-20
Tech-o-talk

Official Club Email
acmw.manipal@gmail.com

E-mail
srikanth.prabhu@manipal.edu

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, Professor and Head, Department of Computer Applications

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

TECHNICAL CLUBS
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, Assistant Professor- Senior Scale, Dept. of Civil Engineering

Contact number  E-mail
+919481228498    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
American Society of Civil Engineers, Manipal Chapter

Domain
Technical

Objective
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.

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Faculty advisor
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Contact number
+919481228498

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pc.pandit@manipal.edu

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Facility advisor
Dr. Arun Shanbhag, Chief Innovation Officer

Contact number
+1 6174709411

E-mail
arunshanbhag@gmail.com

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

Official Club Email
adgmanipal@gmail.com

Apple Developer's Group

Domain
Technical

Objective
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

Contact number
+1 6174709411

E-mail
arunshanbhag@gmail.com

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

Official Club Email
adgmanipal@gmail.com

Ingenuity - A compendium on Student Clubs
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, Assistant Professor (Selection Grade)
Department of Mechanical & Manufacturing Engineering

Contact number
9964381237

E-mail
nayak.raj@manipal.edu

Major achievement of the club
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  Ab. BMESI | MC

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, Associate Professor – Department of Biomedical Engineering

Contact number  E-mail
9448911493  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, Assistant Professor

Contact number  E-mail
8951933931          chethan.sharma@manipal.edu

Major Event of the year
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 Club

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
B Gopalkrishna, Head, Dept of Humanities Department

Contact number
+91 99800 97242

E-mail
gopalkrishna.b@manipal.edu

Major Achievement
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 Club

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, Professor & Head, Department of Computer Applications

Contact number
+91 9902115271

E-mail
karunakar.ak@manipal.edu

Event
LC Linz webinar, Remote SRO, Nomination Seminar with LC

Official Club Email
chairperson@iaeste.in
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

Events conducted in 2019-20
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, Assistant Professor - Senior scale

Contact number
9916809374

E-mail
subbalaxmi.s@manipal.edu

Major achievement
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 (Civil Students' Chapter 0576)

**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**  
Mr. Arun Kumar Y. M. Assistant Professor Senior scale, Department of Civil Engineering

**Contact number**  
+91 9611842032  
**E-mail**  
kumar.arun@gmail.com

**Main Event held during 2019-2020**  
Constructure is our category in Techtatva. It consisted of 4 events

#### I. CONKREATION

#### II. HYDRAULIC BRIDGE

#### III. DOME-I-NATION

#### IV. M.Y.O.C.

**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, Assistant Professor - Selection Grade

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.

Official Club Email
hello@iecsemanipal.com

Genesis - This is a member only event held in the odd semester, which spans across 3 days.
IE E&E Students' Chapter Manipal

**Domain**
Technical club

**Objective of the club**
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**
Lakshman Rao S. Paragond, Associate Professor, Department of Electrical and Electronics Engineering

**Contact number**
+91 8660619189

**E-mail**
laxman.sp@manipal.edu

**Main Event**
Visit to Sharavati Hydel-power plant [29/02/2020]

Official Club Email
ieenemanipalexecutive@gmail.com
IE-E&C The Manipal Chapter

Domain
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, Professor, Department of Electronics & Communication Engineering

Contact number
9448300922

E-mail
gs.nayak@manipal.edu

Major event of 2019-2020
"CRUCIBLE"

Official Club Email
ieenc1718@gmail.com
IEEE Student Branch Manipal

Domain
Technical + IEEE 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
Pallavi R Mane, Professor, Department of Electronics & Communication Engineering

Contact number
+91-8618639621

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-Led-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
Students' 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, Associate Professor (Senior Scale)

Contact number
6362849169, 9448983195

E-mail
krishna.murthy@manipal.edu

Major event of 2019-2020
AutoCAD Workshop 2019

Official Club Email
iemech_board@outlook.com
IE Mechanical Students' Chapter, Manipal

Domain
Student Chapter

Objectives of the club
- To provide practical knowledge to its members and participants through various events.
- To organize events such as AutoCAD Workshop, Imperium, Swacch Bharat Events, and Placement Talks.
- To implicate practical knowledge to its members and participants through these events.
- To handle the Category – Mechanize in TechTatva every year.
- Imperium is the club's 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 Muhy, Associate Professor

Contact number 6362849169, 9448983195
E-mail krishna.muhy@manipal.edu

Major Event of 2019-2020
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.

IE Mechatronics Students' Chapter, Manipal

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

Faculty advisor
Shashank Pansari, Assistant Professor

Contact number 9901641325 E-mail shashank.pansari@manipal.edu

Major Events
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
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.

Achievements in year 2019-20
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
iiicheboard@gmail.com
Indian Institute of Chemical Engineers
Domain
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.

Official Club Email
iicheboard@gmail.com

Faculty advisor
Dr. Gautham Jeppu
Contact number
+91 8762213942
E-mail
gautham.jeppu@manipal.edu

Achievements in year 2019-20
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 Bhaad, 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.

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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 Bhaad - Project Intern at BASF India Limited
6. Ankita Paul - Research Intern at UNSW, Sydney placed as Consultant at Deloie India.

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

Featured 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.

International Organization of Software Developers - Manipal

Domain
Technical

Objective
Unlike any other club, we at IOSD mainly focusses around few things and is working towards fulfilling objectives that is
1- Organises hackathons 2- Internship Fair
3- IOSD Summer of Code
4- IOSD Resource Portal (Online lectures, E-books, IDE for practice, challenge and interview, etc.)
5- 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
Mr. Roshan David Jathanna, Assistant Professor - Selection Grade, Department of Computer Science & Engineering

Contact number
9845702658

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roshan.jathanna@manipal.edu

Featured 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

Domain
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
Mr. D. A. P. Prabhakar, Assistant Professor, Department of Mechatronics Engineering

Contact number  E-mail
+91 95732 60485  pavan.prabhakar@manipal.edu

Major event of 2019-2020
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
Student Chapter

Objectives of the club
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. Ujjwal Verma, Associate Professor, Department of Electronics and Communication Engineering

Contact number
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E-mail
ujjwal.verma@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, Professor, Department of Computer Applications

Contact number
9481509128

E-mail
hareesh.ks@manipal.edu

Major Event
SHRAMDAAN – In association with VSO, under the DaanUtsav banner, we visited a farm and interacted with some farmers.

Official Club Email
lakshya.tac@gmail.com
Linux Users' Group, Manipal

Domain
Technical

Objectives of the club
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
Mr. Ashwath Rao, Assistant Professor - Selection Grade, Department of Computer Science and Engineering

Contact number
9845403148

E-mail
ashwath.rao@manipal.edu

Official Club Email
hello@lugm.xyz

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.
Manipal Information Security Team

Domain
Technical

Objectives of Club
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
Mr. Raghavendra Ganiga, Assistant Professor - Senior Scale, Department 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 of the club
• 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, Assistant Professor Sr. Scale - Department of Computer Science and Engineering

Contact number
+91 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, Associate Professor – Senior Scale, Department of Information & Communication Technology

**Contact number**  
(+91) 94488 88488

**E-mail**  
chandrakala.cb@manipal.edu

**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

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**Ingenuity**  
A compendium on Student Clubs
Student Entrepreneurship Cell

Domain
Business

Objectives of the club
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, Associate Professor - Senior Scale

Contact number
9900411040

E-mail
santhosha.rao@manipal.edu

Official Club Email
sec.mutbi@gmail.com

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.
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
Padmaraj N H, Assistant Professor- Senior Scale, Department of Aeronautical & Automobile Engineering

Contact number
+919886106513

E-mail
Padmaraj.nh@manipal.edu

Major event during 2019-20
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
Mr. Chethan Sharma, Assistant Professor, Department of Information and Communication Technology.

Contact number
+918951933931

E-mail
chathan.sharma@manipal.edu

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

Official Club Email
tcfgmanipal@gmail.com
The ASTRONOMY Club

Domain
Technical Club

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 nubulae.

Faculty advisor
Dr. Pramoda Kumara Shetty

Contact number     E-mail
9448251905     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, Assistant Professor – Senior Scale, Department of Computer Applications

Contact number
9964278136

E-mail
archana.suk@manipal.edu

Official Club Email
opensourcetechnologyforummit@gmail.com
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 and subtle technicalities of theatre at the front end as well as backend and to pass this knowledge to every new coming set of students enabling them to understand and appreciate this form of art.

Faculty advisor: D A P Prabhakar, Assistant Professor - Mechatronics

Contact number: +91-95732 60485

E-mail: pavan.prabhakar@manipal.edu

Major Achievement/Event:
Spotlight" Exclusive first year event, 6 stage plays converted to show film format to give maximum exposure to freshers about theatre, 100+ club members involvement.

Official Club Email: aainadramatics.mit@gmail.com
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
D A P Prabhakar, Assistant Professor – Mechatronics

Contact number  E-mail
+91-95732 60485  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

Objective of the Club
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
Pavan Hiremath, Assistant Professor (Senior Scale)

Contact number +91 96208 19669
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 Mime 2nd position (2019)
Christ University Mime 2nd position (2020)
Unmaad (IIM Bangalore) Centrestage 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, Assistant Professor - Senior Scale, Department of Instrumentation & Control Engineering

Contact number
9845309038

E-mail
nayak.ganesh@manipal.edu
ARTPOD

Domain
Cultural

Objectives of the club
Promote fine art, art appreciation and conduct art exhibitions, interactive events and art interpretation seminars

Faculty advisor
Sharal T Correa, Assistant Professor, Department of Humanities and Management

Contact number > E-mail
+91 81472 75744 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, Assistant Professor, Dept. Of Humanities and Management

Contact number
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E-mail
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 of Club
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 it’s 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
Diwakar G Sudhakar, Assistant Professor Senior Scale, Dept. of Civil Engineering

Contact number  E-mail
+91 70198 56640  diwakar.gs@manipal.edu

Major Achievement of the club
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
Akshaj Mj, Dept. of Computer Science Engineering

Contact number  E-mail
+91 97425 03805  Akshay.mj@manipal.edu

Major achievement /event held during the year 2019-20
2nd place in Unmaad 2020 (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, Assistant Professor, Department of Civil Engineering

Contact number
+91 81479 01288

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, Professor, Department of Humanities & Management

Contact number
+91-9845609961

E-mail
vittal.alapati@manipal.edu

Official Club Email
wecuriocity@gmail.com

Major Event/Achievement
Conducted classes for the students of class 9th and 10th, NMMS scholarship exam preparation for class 9th students.
ECOLOGICAL CONSERVATION & HABITAT RESTORATION ORGANISATION

Domain
Environmental

Objectives of ECHO Manipal
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, Asst. Professor, Dept. of Civil Engg

Contact number
9164489836
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sandeep.gs@manipal.edu

Major Event/Achievement
Sapling challenge

Official Club Email
echomanipal.org@gmail.com

NON-TECHNICAL CLUBS
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
Sandeep Parma, Assistant Professor

Contact number  E-mail
+91 95359 57493 sandeep.parma@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, Assistant Professor, Department 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 of the club
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, Department of Computer Science and Engineering

Contact number  E-mail
9844551318  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, Associate Professor, Department of Chemistry, MIT.

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. Gurumuhy S C, Department of Physics
Contact number: 9449740014
E-mail: gurumuhy.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 Instagram 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)

3. ENDEAVOURS AT MANIPAL: An Instagram 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)

Official Club Email
hpe.manipal@gmail.com
THE OFFICIAL LITERARY, DEBATE AND QUIZ CLUB OF MIT, MANIPAL

Domain
Cultural

Objectives of the Club
• 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
Mr. Sriprasad Acharya, Assistant Professor - Senior Scale, Department of Chemical Engineering

Contact number  E-mail
+91 98808 03665  sriprasad.acharya@manipal.edu

Achievement /Event Held
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
Raviprakash Y, Assistant Director (Academics)

Contact number
+91 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, HOD and Professor, Department of Media Technology

Contact number  E-mail
8151929439  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, etc.

Faculty advisor
Giridhar Kamath, Assistant Professor-Senior Scale

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
**Domain**
Social

**Objectives of the club**
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**
Mahesha MG, MSC, PhD; Assistant Professor-Senior Scale, Department of Physics

**Contact number**
9449452341

**E-mail**
mahesha.mg@manipal.edu

**Major Achievement / Event held during the year 2019-20**

**Health and Hygiene:** To educate students on precautions against Covid

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

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

**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, A and Dance), events, open mics, 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 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, A and dance - not just in MIT, but MAHE as a whole.

**Faculty advisor**
Dr. Rajendra B V, Associate Professor Senior-Scale, Department of Physics

**Contact number**
91 94481 53177

**E-mail**
bv.rajendra@manipal.edu

**Major Event/Achievement**
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 A competition, ‘Dystopia’, 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!

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

Domain
Cultural

Description
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Faculty advisor
Dr. Rajendra B V, Associate Professor Senior-Scale, Department of Physics

Contact number
91 94481 53177

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.

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Official Club Email
mafiaclub.mit@gmail.com
NAQAAB FILMAKING

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, Assistant Professor, Department of Media Technology

Contact number
9844619232, 8660613509

E-mail
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, Asst. Professor – Senior Scale, Department of Civil Engineering

**Contact number**
9900408120

**E-mail**
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 of the club
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, Assistant Professor, Department of Humanities & Management

Contact number  E-mail
+91-9035729023  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
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. 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.

Faculty advisor
Shyam Karanth, Assistant Professor Senior Scale, Department of Computer Science & Engineering.

Contact number  E-mail
+9686300153  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
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, Assistant Professor Senior Scale, Department of Computer Science & Engineering.

Contact number
9686300153

E-mail
shyam.karanth@manipal.edu

Major event/Achievement
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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
Prof. M Prasanna Kumar, Assistant Professor, Department of Civil Engineering

Contact number  E-mail
9480141769  prasanna.kumar@manipal.edu

Major achievement /event
Community Contact Programs, DholBaje—an annual fundraiser & cultural extravaganza, Blood Donation Camps, Stem Cell Donor Registration Drive, Clothes Donation

Official Club Email
rotaractmanipal3182@gmail.com
SCIO FOUNDATION

Domain
Social

Description
SCIO Benevolent Foundation is an NGO registered under the Ministry of Corporate Affairs as a Section 25 company. SCIO strives to bring a prominent change in the major fields of rural education, career development, health for the underprivileged and awareness of menstrual hygiene through our four flagship events, Veda, Vidya, Vaidya and Su-khoon.

Veda - An effort to connect rural students with creative minds from different walks of life, a talk session with celebrated speakers sharing their stories to ignite young minds.

Vidya - Vidya is a one on one informative session focused mainly on high school students to give them a head start on the immense career possibilities that lie ahead.

Vaidya - A health camp to cater to the basic needs of underprivileged workers, offer free health checkups and access to medical advice.

Su-khoon - Su-khoon is a three-event drive to promote awareness about menstrual hygiene and to break the mental stigma of menstrual taboos. Under Su-khoon, SCIO conducts an open impromptu discussion about period talk, an open virtual platform to share ‘Menstrual’ in the form of paintings or poetry, and also conducts a cloth pad distribution in rural areas of Manipal.

Along with these events we organize old age home visits, orphanage visits etc.

Faculty advisor
Mrs. Devika Rani, Assistant Professor - Senior Scale, Department of Humanities & Management

Contact number 98444 24491
E-mail devika.premnath@manipal.edu

Major Event
VIDYA EVENT

Official Club Email
sciofoundation.mit@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, Assistant Professor - Senior Scale, Instrumentation and Control Engineering

Contact number
08202925152

E-mail
cr.srinivasan@manipal.edu

Major event/Accomplishment
First and Second position in Revels-2020 (Desi Tadka)

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
Sir Vishal Shenoy P, Assistant Professor (Senior scale), Department of Mechanical and Manufacturing Engineering

Contact number E-mail
9880901832 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
Mr. Aneesha Acharya K, Assistant Professor- Senior Scale, Department of Instrumentation and Control engineering.

Contact number
99640 19363

E-mail
ak.acharya@manipal.edu

Major Event/Achievement
• Doubling of Social Media Reach
• Manipal talkies (an event with the great Theatre artist- Sir Mohammad Ali Baig)

Official Club Email
thethinktankmit@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.

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Official Club Email
thethinktankmit@gmail.com

Faculty advisor
Mr. Aneesha Acharya K, Assistant Professor - Senior Scale, Department of Instrumentation and Control engineering.

Contact number
99640 19363

E-mail
ak.acharya@manipal.edu

Major Event/Achievement
• Doubling of Social Media Reach
• Manipal Talkies (an event with the great Theatre artist - Sir Mohammad Ali Baig)

YES!+ CLUB, MANIPAL

Domain
Cultural and Social

Objectives of the club
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, Professor, 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
180 DEGREE CONSULTING

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, Professor, Department of Biotechnology engineering.

Contact number
9448529691

E-mail
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
180 DEGREE CONSULTING

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Official Club Email

manipalacademy@180dc.org

Faculty advisor

Dr V Ramachandra Muy, Professor, Department of Biotechnology Engineering.

Contact number

9448529691

E-mail

muy.vytla@manipal.edu

Events

Aiculus 2020:

Aiculus is a marketing competition held by 180dc Manipal to test the creativity and market analysis skills of students.
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 K N, Assistant Professor-Senior Scale, Department of Aeronautical & Automobile Engineering.

Contact number
+91 96206 74444

E-mail
chethan.kn@manipal.edu

Major Event
MIT BML Season 1

Official Club Email
mitbml.pr@gmail.com
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 for all the students with interest, passion and talent to show their skills in sports. 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 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.

Official Club Email
mitbml.pr@gmail.com

Faculty advisor
Chethan K N, Assistant Professor-Senior Scale, Department of Aeronautical & Automobile Engineering.

Contact number
+91 96206 74444
E-mail
chethan.kn@manipal.edu

Major event
MIT BML Season 1

MIT BASKETBALL LEAGUE

Domain
Sports

Objectives of the club
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, Assistant Professor-Senior Scale, Department of Aeronautical & Automobile Engineering.

Contact number
+91 96206 74444
E-mail
chethan.kn@manipal.edu

Major event
MIT Basketball League Season 3

Official Club Email
mitbbleague@gmail.com
MIT CRICKET LEAGUE

Domain
Sports

Objectives of the club
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 you 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 K N, Assistant Professor-Senior Scale, Department of Aeronautical & Automobile Engineering.

Contact number
+91 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 of the club
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, Assistant Professor-Senior Scale, Department of Aeronautical & Automobile Engineering.

Contact number
+91 96206 74444

E-mail
chethan.kn@manipal.edu

Major Event
MIT Football League, Intersection Tournament for First Years.
MIT FOOTBALL LEAGUE

Domain
Sports

Objectives of the club
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, Assistant Professor-Senior Scale, Department of Aeronautical & Automobile Engineering.

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Major Event
MIT Football League, Intersection Tournament for First Years.

Official Club Email
mitflleague@gmail.com
MIT CHESS CLUB

Domain
Sports

Objectives of the club
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, Associate Professor - Senior Scale, Department of Mathematics

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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 CHESS CLUB

Domain
Sports

Objectives of the club
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.

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Faculty advisor
Dr. Babushri Srinivas Kedukodi, Associate Professor - Senior Scale, Department of Mathematics

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E-mail
babushrisrinivas.k@manipal.edu

Major achievement in 2019-2020
Conducted the first MIT Chess Championship, the first ever all MIT open chess tournament.

MIT SPORTS CLUB

Domain
Sports

Objectives of the club
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, Assistant Professor - Senior Scale, Department of Aeronautical & Automobile Engineering.

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E-mail
chethan.kn@manipal.edu

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.

Official Club Email
mitsportsclub@gmail.com
MAJOR STUDENT PROJECTS

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Ingenuity - A compendium on Student Clubs
Formula Manipal, founded in 2007, is a student engineering project based in Manipal, Karnataka. It comprises of 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 competitions at FS Italy, FS UK, FS Germany, FS Czech, FS Austria and Formula Bharat. Being one of the highly-rated student project of Manipal University and one of the best FSAE teams in India, Formula Manipal has scaled several heights on the student racing circuit.

• In 2008, the FM08 at Italy, received the Farthest travelled team award.
• In 2009, the FM09 went to the UK, where the team stood 10th in the cost report.
• In 2010, the FMX team came 4th in the cost event in FS Austria and was the lightest India FSAE car that was also given the award of ‘Most Motivated Team’.
• The FMXI team went to Italy in 2011, stood 16th in the cost event.
• FMX3 set the tracks blazing as 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.
• FMX4, the season 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 in 2014.
• The season 2016 car, FMX6 came 3rd in the Design event at Formula Bharat 2017 after the events at FSG and FS Czech in 2016.
• 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 design event and 3rd overall among 22 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.
• In 2021, Formula Bharat hosted an event where the team secured an overall 6th and finished 3rd in the Business event with the title of “Best presentation delivery” and “Best innovative concept” under their belt. Electric team won the “Vehicle Tech” Ather Energy Software Award.

In its 15th season, the team has evolved into a multidisciplinary organization with students from all branches of MIT participating in making not only electric & combustion racecars but a driverless racecar too. The team has spent nearly 2 years in the research & development of its driverless vehicle. The car will have its first prototype up and running by the end of 2021, making it, India’s first Driverless Racecar and Formula Manipal the only team in India to compete with all three categories of formula student racecars. The team of 60+ students working around the clock, often partnering up with Industry leading companies such as MATLAB, FESTO, Simscaile, Ricardo 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
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. They are an entirely student-run team started in 2011. They manufacture and assemble 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 and Gigavac are some of the esteemed organizations which have supported them throughout their journey.

SolarMobil, established in 2011, is the official Solar Car team of Manipal Academy of Higher Education (MAHE). They are a team of passionate individuals who under the aegis of Manipal Institute of Technology (MIT) focus on the research and development of solar powered electric vehicles.

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.

Vision

Mission

**Team Achievements**

• SERVe won QuEST Ingenium 2015.
• Freyr1 made SolarMobil the 3rd ever Indian Solar Car team to fabricate a solar car from scratch.
• SERVe was India’s first 2-seater Solar Vehicle.
• SERVe won 1st prize under category UJJWAL in IIT-Bombay Tech fest.
• SM-S1 was India’s First 4-seater Solar Vehicle.
• The team is looking forward to showcase its talents nationally, through the ESVC 3000+, an endurance race from Chandigarh to Pune in 2022.
• SM-S2 was invited to feature at the Champions of Champions 2019, Vijayawada and Future Mobility Show 2019, Bangalore by ISIE.
• SM-S1 won ASME SLDC 2016
• Freyr1 won consolation Prize at Manipal University Innovation day.
• SERVe won 3rd Prize at CII India Innovation Challenge among 1500 entries.
• SM-S1 got 3rd place in Anveshan 2017.

**Current Project**
The team is currently putting their efforts into building a single-seater solar racing car. With this, they plan on competing in the latest iteration of the Electric Solar Vehicle Challenge 2021 and the World Solar Challenge.

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Mission
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.

They are an entirely student-run team started in 2011. They manufacture and assemble 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 and Gigavac 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.

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

Team Achievements
- Freyr1 made SolarMobil the 3rd ever Indian Solar Car team to fabricate a solar car from scratch.
- Freyr1 won consolation Prize at Manipal University Innovation day.
- SERVe was India’s first 2-seater Solar Vehicle.
- SERVe won 3rd Prize at CII India Innovation Challenge among 1500 entries.
- SERVe won QuEST Ingenium 2015.
- SERVe won 1st prize under category UJJWAL in IIT-Bombay Tech fest.
- SM-S1 won ASME SLDC 2016
- SM-S1 was India’s First 4-seater Solar Vehicle.
- SM-S1 got 3rd place in Anveshan 2017.
- SM-S2 was invited to feature at the Champions of Champions 2019, Vijayawada and Future Mobility Show 2019, Bangalore by ISIE.
- The team is looking forward to showcase its talents nationally, through the ESVC 3000+, an endurance race from Chandigarh to Pune in 2022.

Current Project
The team is currently putting their efforts into building a single-seater solar racing car. With this, they plan on competing in the latest iteration of the Electric Solar Vehicle Challenge 2021 and the World Solar Challenge.
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MANAS, established in 2014, as quoted in Sanskrit scriptures means higher intelligence. The project aims to develop an autonomous drive system for vehicles optimized for Indian road conditions. With over 259 applicants across the country from the finest educational institutions and professional startups 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 holding its position among the top 13 teams today. The team is the only undergraduate team among the top 13 teams.

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Solar Mobil is the Grand Prize winner and won the Lescoe Cup at Intelligent Ground Vehicle Challenge (IGVC 2019), held in Michigan, USA. The team is currently working on a driverless car Eve and building an Unmanned Aerial Vehicle (UAV) for the AUVSI-SUAS competition, which takes place in Maryland, USA.

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Mars Rover Manipal (MRM), founded in 2014, is a multidisciplinary team of engineering undergraduates working to develop next generation rovers for the exploration of extra-terrestrial environments, while conducting research on state of the art technology in fields of Artificial Intelligence, Machine Design and Robotics.

Inspired by the success of ISRO’s pioneering Mangalyaan (MOM) mission, students of Manipal Institute of Technology to compete in the University Rover Challenge (URC), an annual international robotics competition held by the Mars Society in the US. The team cleared the qualification rounds 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. The team achieved incredible success in the following editions of competition, ranking 8th worldwide and 1st in Asia in URC 2017 and repeating the feat in URC 2019. The team finished 7th worldwide in the qualification stage of URC 2020, before the field competition was cancelled due to the onset of the COVID-19 Pandemic. The team secured the 1st position in the inaugural edition of International Rover Challenge (IRC) held by the Mars Society South Asia (MSSA) in 2018. Owing to its vast experience, MRM organized IRC 2019, hosted at Manipal Institute of Technology, Manipal.

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. The team finished, 7th worldwide in URC 2020.

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. The team is currently competing in several highly prestigious competitions such as the European Rover Challenge (ERC) and the ARTPARK Robotics Challenge held by IISc Bangalore.

Since its inception in 2014, MRM has published 12 research papers and 3 case studies. This past year, MRM has filed for a patent and 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”.

Mars Rover Manipal Team
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2. **Piyush Raj** (Team Manager)
   📞 +91 9307288911

Mars Rover Manipal

Mars Rover Manipal (MRM), founded in 2014, is a multidisciplinary team of engineering undergraduates working to develop next generation rovers for the exploration of extra-terrestrial environments, while conducting research on state of the art technology in fields of Artificial Intelligence, Machine Design and Robotics.

Inspired by the success of ISRO’s pioneering Mangalyaan (MOM) mission, students of Manipal Institute of Technology to compete in the University Rover Challenge (URC), an annual international robotics competition held by the Mars Society in the US. The team cleared the qualification rounds 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. The team achieved incredible success in the following editions of competition, ranking 8th worldwide and 1st in Asia in URC 2017 and repeating the feat in URC 2019. The team finished 7th worldwide in the qualification stage of URC 2020, before the field competition was cancelled due to the onset of the COVID-19 Pandemic. The team secured the 1st position in the inaugural edition of International Rover Challenge (IRC) held by the Mars Society South Asia (MSSA) in 2018. Owing to its vast experience, MRM organized IRC 2019, hosted at Manipal Institute of Technology, Manipal.

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. The team finished, 7th worldwide in URC 2020.

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. The team is currently competing in several highly prestigious competitions such as the European Rover Challenge (ERC) and the ARTPARK Robotics Challenge held by IISc Bangalore.

Since its inception in 2014, MRM has published 12 research papers and 3 case studies. This past year, MRM has filed for a patent and 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”.

Mars Rover Manipal Team
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RoboManipal, established in 2010, is the official robotics team of Manipal Institute of Technology, Manipal. Its 35+ odd members are an amalgamation of robotics enthusiasts from multiple streams of engineering. RoboManipal has been a home to some of the best and most innovative minds of MIT. The team specialises in robotic technology and works in synergy to continuously engage in the process of learning and effectively applying the acquired knowledge to constantly innovate.

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 a variety of 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 on its outlook and success. Apart from competitions there members are also involved in lots of 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. The Advanced Robotics Research subsystem, the newest addition to our project, deals with new innovative design, fabrication and manufacturing of Robots. The subsystem has an exclusive punch of sophistication and handles research level concepts to be applied in collaboration to robotics. The main objective is to work on long term projects that are a step above the complexity of our annual competition bots. Currently, ARR is on track to build a quadruped and a full scale humanoid, both life sized.

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

RoboManipal Team

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MAJOR STUDENT PROJECTS
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MotoManipal, founded in 2018, is a team of passionate, selfless and dedicated students from Manipal Institute of Technology. The students at Moto Manipal have devoted themselves towards making a fast, efficient and environment-friendly Electric Superbike.

Vision
Global warming has caused a paradigm shift in humanity’s future. MotoManipal hopes to do its bit for the environment and is inspired to build a superbike using rechargeable Lithium-ion cells, making it a rich tool for R&D in order to help shape the future of clean transport technologies in India.

Mission
As a unified team of passionate and enthusiastic young students, we are determined to create a world-class electric superbike. MotoManipal is focused on conducting research in various aspects of EVs and aims to participate in national and international competitions. We are currently fabricating our second electric racing bike- “MM-02” to participate in FMAE MotoStudent India-Electric which is to be held at the Kari Motor Speedway, Coimbatore in 2021. Furthermore, we aim to be one of the first Indian teams to participate in the prestigious competition - MotoStudent Electric which is to be held at Aragon, Spain in 2022.

Achievements
1. MotoManipal participated in the Asian E Bike Challenge - 2019 in the month of September at Visakhapatnam, Andhra Pradesh where 35 teams from all over India participated. MotoManipal secured prizes in the following categories:
   • Best Commercial Bike (Winners)
2. Amidst the Coronavirus pandemic, the team participated in the National Online E-Bike Design Competition, Season-1, in September 2020 and were declared Champions.
3. MotoManipal also took part in the FMAE National Online E-Bike Design Competition, Season-2, in March 2020 and secured the First Position yet again, thus managing to defend their championship successfully.

For the third time, the team placed 1st at the National Online E-Bike Design Competition held in 2021. MotoManipal is one of the few teams to make the most out of the pandemic by winning two back-to-back championships. They were featured in the esteemed daily- ‘The Times of India’ for their exceptional performance. Additionally, the renowned newspapers- “Deccan Herald” and “Prajavani” also featured the team for the same.

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Team Manipal Racing, established in 2008, is the official Off-Road racing team of MAHE. Every Year, our goal is to innovate, design, fabricate, test an ATV (All-Terrain Vehicle), using various industry grade manufacturing processes, to participate in collegiate competitions organized by institutions like SAE. This is a place where we apply the concepts we have learnt of physics, designing, material properties, and so on.

TMR took up its first project, V1 which participated in SAE BAJA held in Wisconsin, USA. It was the first Indian team to qualify for the competition and one of the two teams representing Asia. From V1 to V11, 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, and starting with, making a CAD design of all components of the ATV, and after series of iterations towards optimization, applying FEA, 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, and over the years, every single team member is quite well versed in the operation of these machines. 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 this year, we are starting a full electric power ATV team along with our combustion based ATV, which brings more opportunities and areas of study.

Team Manipal Racing V11 officially ended its thirteenth season bagging achievements at online –BAJA SAE India, 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.

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AeroMIT, founded in 2009, takes immense pride in being the official Aeromodelling and Drone Research Team of Manipal Academy of Higher Education. They design and fabricate UAVs for various research and competitive applications.

Established in 2009, AeroMIT is now a team of over 30 interdisciplinary undergraduate students whose primary focus is to dive into the world of flight.

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.

AeroMIT consists of 5 interdependent subsystems;
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.

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 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.

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.

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.

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.

Every year AeroMIT takes part in the SAE Aero Design competition held in the USA. 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- The 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 were the runners-up for Technical Presentation and stood 5th Worldwide in the Design Report, in the SAE Aero Design Knowledge Event, 2021.
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Parikshit, established in 2010, Student Satellite Team with 40 members, is engaged in developing a Nano Satellite. Nanosatellites, or nanosats, are a relatively recent term used to describe artificial satellites with a mass of 1-10 kgs. The term "nanosatellites" has been introduced by NASA 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 for the redundancy it could offer.

Parikshit Team
Faculty Advisor

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 in the near future. Parikshit makes it easy to believe that Manipal students not only aim for the sky, but are just as capable of reaching it.

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Their aim was to explore the fields of space science, and specifically, 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. Satellite Deorbit using Electrodynamic Tether, conceptualized by Aditya Palta was termed “ingenious” by ISRO, the first of its kind experiment by an Indian satellite in space, and was reviewed by Dr DVA Raghava Murthy, Director of Small Satellites, ISRO. After much thought, terrestrial thermal imaging was adopted as the satellite’s primary payload. In April 2011, Dr BN Suresh of ISRO reviewed the team’s progress. Parikshit has 6 subsystems constituting its team. They are, Payload—which is the purpose that the satellite will serve once it’s in orbit; Attitude Determination and Control System, Power, Communication, On-board Data handling and Structures & Thermals. Parikshit also has a fully functioning ground station and has published multiple research papers across its domains.

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MAJOR STUDENT PROJECTS
ThrustMIT, founded in 2016, is one of India's top student-run rocketry teams. 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.

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. 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.

The team participated in the competition organized by the Experimental Sounding Rocket Association called Spaceport America Cup, June 2021 where they won 16th overall, 7th in the 10k COTS category and 1st place throughout Asia. Team intends to take part in the Spaceport America Cup, organized by Experimental Sounding Rocket Association to be held in the United States of America in June 2022 and achieve greater heights.

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 41 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.

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Robotics and Circuits was founded in 2010 by Anuj Mangla, focused on research and development in the field of robotics. 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 strive 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.

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 student all over the nation.

In last year, at Vedanth10.0, we saw some great projects by our students, some of which are focused to help in online teaching. 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. Our team continues to advance research on the same.

We also hold internal and external workshops round the year to educate our fellow students and introduce them to the world of robotics.

Our team is currently working towards participating in the “International Micromouse Challenge (IMC)”, to be held at IIT Bombay, annually, in the month of December. The problem statement involves making a small but high-speed autonomous robot that can find its path through maze.

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.

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2. Nihaarika Agarwal (Vice Chairperson)

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Vision, established in 2018, is one of India's first student team working on Augmented Reality. What was started by two friends as a simple endeavor to learn and understand about the technology, VISION is now a team of 25 members expanding its wings rapidly and currently working on numerous projects.

The ultimate aim of the project is to develop an 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. To achieve its goal, the project team continues to develop various supporting sub-projects such as Augmented Reality (AR), Artificial Intelligence (AI), Electronics (EL), Traffic Assist Project, AR Guided Navigation to evolve iteratively.

Currently, keeping the pandemic which has disrupted the world in mind, the team is building an app called “Unreal Estate” which is basically a VR based smartphone app meant for use with google cardboard. This app hopes to create a VR simulation for places available for rent or on sale, so that the client can have a virtual tour of the place from his home instead of manually going to the place to view it, the virtual viewing system developed by the students will be solely for precise viewing of the virtual environment.

The team members have participated in numerous hackathons, one such virtual event was “Hack of Pi”, where the participating VISION teams have worked on projects such as

- EduAR - AR app for visualizing complex educational concepts
- DisectAR - AR App which recognizes machine models by means of scanning a Code stuck to them, and then dissects the model to show different parts involved in it
- ToddAR - AR app for helping toddlers cope up with their daily tasks.

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.

**Vision Team**

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RUGVED Systems, founded in 2017, is a multi-disciplinary team of engineering undergraduate students focused on building various robots for military defense and law enforcement applications powered by various cutting edge technologies. RUGVED stands for Remote Unmanned Ground Vehicular Electronic Defense. 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 (IGVC) held at Oakland University, Michigan, USA, but we participate in multiple Robotics competitions as well. RUGVED Systems participated in IGVC in the year 2018 for the first time and stood at 8th position worldwide in the Design Challenge. In just under 4 months of formation of the team, we had already won the National level Tata Pioneer’s Makerthon - UAV Challenge at the Techfest 2017 IIT Bombay designing an Auto-Levelling UAV Launchpad and again in 2018.

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Members from the team won 2nd place in Ford GME Hackathon 2020. The team has also successfully published 2 Research papers this year. The team has been sponsored by well-known companies such as NVIDIA, National Instruments, Sick, Hemisphere GNSS, Slamtec, Ansys, and many more. Currently, the team is building an autonomous reconnaissance vehicle that can traverse on land which houses a detachable drone and spherical bot for aerial and naval surveillance which can scout for enemy targets and activity as well as generate detailed maps to get a lay of the land.

**RUGVED Team**

1. Anirudh Raghunath (Team Leader)
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Manipal BioMachines, established in 2019, is the official synthetic biology and genetic engineering student project of Manipal Institute of Technology. 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.

The team participated in the International Genetically Engineered Machine competition (iGEM) in its maiden attempt in 2020 and won a gold medal.

Vision

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

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

Our aim this year is 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.

Objectives

Our project this year is titled Cell-Tinel. This year we are working 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 technical aspect:

We intend 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.
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Targets for the year 2021-22
• Participate in iGEM 2021 (International Genetically Engineered Machine)
• Participate in other competitions relating to Synthetic Biology.
• Gain proof of concept for our project.
• Talk to industry experts and potential customers/users to design our project accordingly and analyse its social impact.
• Collaborate with other iGEM teams, other universities and colleges from around the world and clubs in MAHE.
• Promote Synthetic biology by hosting events.
• Publishing research/review papers of our findings.
• Gain funding for our project.
• Recruit team for 2022.

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Manipal Biomachines

Objectives
• Participate in iGEM 2021 (International Genetically Engineered Machine)
• Gain proof of concept for our project.

Vision
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Select a new problem statement each year and in efforts to bring out new and innovative solutions for the betterment of the society.

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loopMIT, founded in 2019, is a dedicated team of undergraduate students from various fields of engineering working on designing, developing and building a sub scale prototype transport vehicle known as the Hyperloop Pod 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. We are presently developing experimental rigs to test some of the essential systems that will form the basis for the actual pod and help us understand how the pod will function and react in real-world situations.

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.

**loopMIT Team**

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**Project AUV Team**

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3. **Anjali Pandey**  
4. **Niraj Chaudhary**  
5. **Hardik Khatri**  
6. **Bharath Ajay**  
7. **Shreya Choudhary**  
8. **Santosh Choudhary**  
9. **Sushmita Sabale**

**Department of Instrumentation and Control Engineering**

**Project AUV Team**

- Our flagship competition is Robonation’s RoboSub, an experimental AUV for both research and competitive purposes.
- AUVs are self-guiding and self-powered vehicles, making them attractive options for industries and fields of study not accessible to humans, such as ocean based research. They can be used in applications, marine propulsion systems, usage of metal matrix composites, underwater photogrammetry navigation systems for digital twinning, applications of autonomous vehicles and systems for defense
- Our prime focus in terms of research is development of AUVs intelligent enough to perform their tasks, identify objects, navigate through prescribed paths, avoid collisions, sense underwater topography, and model and identify underwater vessels.
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Team AUV Manipal

Project AUV Manipal, established in 2019, MIT’s official underwater robotics student team, is a group of individuals brought together by a common interest in exploring the field of underwater robotics. 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, underwater photogrammetry and object modelling using cameras.

Our flagship competition is Robonation’s RoboSub, an international underwater robotics competition held in the United States of America, where we represent our college every year. 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. 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.

Using 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 2020 in preparation for RoboSub 2021.

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.

Project AUV Team
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Team Combat Robotics, founded in 2018, is a team of enthusiastic undergraduate students from different factions of engineering, 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, build, and put together mechanical and electrical aspects of the bot in its own workshops.

**Vision**
To build the best bots, cause no unnecessary harm and to compete in various national and international robotics events held in India.

**Mission**
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 RoboSoccer event.
- In the 2019 MIT TechTatva the team reached 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.
  - **Shadow**: 15kg bot, equipped with a single tooth vertical spinner, and operable 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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Dronaid, established in 2017, is a one-of-a-kind student project initiated in 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.

**Project Dronaid**

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 is capable of making 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.”

In recent years, use of Unmanned Arial 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.

**Team Background**

Dronaid Team

- Faculty Advisor
  - 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.

**Applications**

- 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.
- An overall improvement in the healthcare services provided
- 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.
- 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.

**What makes this project so unique?**

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2. Amit Nambiar (Team Manager)

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- Monitoring and procurement of water or air samples, for research in the field of public health.
- Tourniquets to stop bleeding or inflatable splints to support fractured limbs, cervical immobilizers for trauma patients.

**Cryptonite**

Cryptonite, founded in 2018, is the official ethical hacking and cybersecurity team of MIT. We focus our work in the fields of cryptography, forensics, reverse engineering 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 CTFs 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 each of our recruits to incorporate other fields of science into cybersecurity.

We have consistently improved our ranking on CTF time. Our team members Cynthia Maria Royden Dsouza and Gauri Bhardwaj, came in 8th in Shakti CTF held by Team Shakti (Amrita Vishwa Vidyapeetham) in Dec 2020.

We ended 2020 with a national rating of 26 amongst 2898 teams throughout the country were amongst the top 2% teams all over the world.

During 2021, Mr. Sohom Datta, a member of Cryptonite team has identified a bug and was rewarded $3133.70 by Google’s Vulnerability Reward Program.

**Cryptonite Team**

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- 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

Dronaid Team
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E-Cell

- Conducting events and activities to promote entrepreneurship ecosystem on-campus: Mentorship meets, Workshops, E-summits, case study competitions, B-model competitions, etc.

E-Cell would act as a bridge between students with ideas and people with expertise in Manipal Institute of Technology. The following activities are proposed.

- Creating a network of experts who could mentor the budding students to develop on their ideas.
- Providing the students access to the alumni network of MIT.
- Referring students with mature ideas to MUTBI for pre-incubation and funding.
- Increasing the ground outreach and awareness about various government policies for innovation and start-ups.

Proposed activities of E-Cell:

- Faculty Advisor
- ESports Webinar: The E-Cell and MIT Gaming organized a discussion with EWar Games founder, Mr. Parth Chadha. Mr. Parth talked about the gaming industry and the experiences and challenges they have faced in their journey so far. EWar Games is an upcoming e-sports platform that aims to revolutionize competitive gaming in India. The webinar was held on 25th June at 6:00 PM.
- Kin & Kith Webinar: The E-Cell held a webinar with the co-founders of Kin & Kith on the 11th of July at 4:00 PM. Kin & Kith is a professional training and coaching company that focuses on family businesses. The webinar aimed to help individuals strengthen their ability to lead the businesses created by their forefathers.

Faculty Advisor

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Links

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S.W.A.R.M ROBOTICS

S.W.A.R.M Robotics team, founded in 2017, 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.

S.W.A.R.M ROBOTICS Team

1. Vedant Walia (Team Leader)
2. Maheep Raj (Technical Advisor)

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E-Cell

E-Cell MIT Manipal has been established with a vision to empower entrepreneurship by promoting a vibrant start-up ecosystem and facilitating budding students to develop their ideas. The mission of the E-Cell is to act as a one-stop destination for all students looking to convert their ideas into viable start-ups and to inculcate the spirit of entrepreneurship among young minds.

Proposed activities of E-Cell:

- Conducting events and activities to promote entrepreneurship ecosystem on-campus: Mentorship meets, Workshops, E-summits, case study competitions, B-model competitions, etc.
- Creating a network of experts who could mentor the budding students to develop on their ideas.
- Providing the students access to the alumni network of MIT.
- Referring students with mature ideas to MUTBI for pre-incubation and funding.
- Increasing the ground outreach and awareness about various government policies for innovation and start-ups.

Events held

ESports Webinar: The E-Cell and MIT Gaming organized a discussion with EWar Games founder, Mr. Parth Chadha. Mr. Parth talked about the gaming industry and the experiences and challenges they have faced in their journey so far. EWar Games is an upcoming e-sports platform that aims to revolutionize competitive gaming in India. The webinar was held on 25th June at 6:00 PM.

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The Editorial Board of MIT

Domain
Media Body

Objective/Description
A student body working towards creating the annual yearbook - the official document of the college which aims to encapsulate all the significant moments of an academic year. A team of dedicated students works all year round, across numerous departments- creating content, organising and conducting photoshoots, alongside the college administration. Presently, we are working towards introducing the yearbook onto the digital platform and launching our website thereby allowing widespread access.

Faculty advisor
Dr. Sudhamshu Bhushan Raju

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E-mail sudhamshu.br@manipal.edu

Major event
The Editorial Board is responsible for -
1. Conducting the photoshoots of the graduating batch, clubs, faculty and administration
2. Making and publishing the Yearbook

Official Club Email
mit.edboard@gmail.com
The MIT Post

Domain
Media Body

Objective
As the official media body of the college, The MIT Post is responsible for chronicling the events happening in and around the campus. Aside from covering and reporting on such events, the Post also interviews eminent personalities. The organization also acts as a channel of communication between the students and the administration. Voicing student concerns, reporting on issues related to the college, and representing the student body is a big part of the organisation.

The Post also promotes creativity of all kinds, as is evident from the countless impeccable op-eds, artworks, and designs published by the media body. The Post's mobile application acts as a medium for students to access the SLcM portal, check important official notices quickly, and consume the Post's content on-the-go.

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Recent Highlight
The Post publishes a quarterly magazine—‘The Standard’, filled with relevant and engaging articles, artworks, and designs; with the most recent edition published in July 2020.

Official Club Email
themitpost@gmail.com
Student Council, Manipal Institute of Technology

Domain
Student Organization

Objectives
The Student Council is the students’ representative body of Manipal Institute of Technology. It acts as a medium between the administration and students of the college, assisting the authorities in the continual improvement in the areas of academics, campus life, placements and student welfare. Through class representatives, the Council addresses queries and issues faced by the students and also communicates official information at a student level. It promotes co-curricular, extracurricular and sports activities in the institute, and coordinates activities of cultural, technical, and sports clubs, student chapters, and student projects. It organises the annual National Cultural and Sports Fest, Revels, in the month of March and the annual National Technical Fest, TECHTATVA, in the month of October. It supports and promotes campus placement activities and initiatives.

Faculty advisor
Works under the Office of Student Welfare

Major events/Programmes
Revels (Annual National Cultural and Sports fest), TECHTATVA (Annual National Technical Fest), Career Development Centre (CDC), Student Teaching Student Programme (STSP), The Mentorship Programme (TMP), Club Expo.

Official Club Email
mitsc20@gmail.com
**Student Council, Manipal Institute of Technology**

**Domain**

**Student Organization**

**Objectives**

The Student Council is the students' representative body of Manipal Institute of Technology. It acts as a medium between the administration and students of the college, assisting the authorities in the continual improvement in the areas of academics, campus life, placements and student welfare. Through class representatives, the Council addresses queries and issues faced by the students and also communicates official information at a student level. It promotes co-curricular, extracurricular and spos activities in the institute, and coordinates activities of cultural, technical, and spos clubs, student chapters, and student projects. It organizes the annual National Cultural and Spos Fest, Revels, in the month of March and the annual National Technical Fest, TechTatva, in the month of October. It supports and promotes campus placement activities and initiatives.

**Faculty advisor**

Works under the Office of Student Welfare

**Major events/Programmes**

Revels (Annual National Cultural and Spos fest), TechTatva (Annual National Technical Fest), Career Development Centre (CDC), Student Teaching Student Programme (STSP), The Mentorship Programme (TMP), Club Expo.

**Official Club Email**

mitsc20@gmail.com

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**Techtatva**

National Level Technical Fest at MIT, Manipal

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**Techtatva**

National Level Technical Fest at 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.