



7.3.1

Department for Interdisciplinary Research (DIR) & its activities

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PRODUCT DESIGN STUDIO

The product design studio is an innovative thinking of the team. Energy and passion drives pushed the envelope to create cutting edge designs with the aim of approaching clients across several industries. It's young team's persistent attempt to create innovative design solutions that work for clients and helps them succeed.

Product design Studio aim to be a force to reckon with on the global platform and showcase work that acts as a true catalyst in the success of future clients and the concept follow a simple process of 3 steps- Analyze, Create, Develop. During Analysis we get a good understanding of our end users, target market and competitors. Which helps us in understanding what to achieve at the end before beginning. Based on that analysis we start to ideate and brainstorm small ideas which eventually are converted to complete concepts. In the development phase we take the concepts and bring them to life in the world of 3D.





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PRODUCT LABORATORY

Product Design Studio consists of

- 1. Drafting Boards:** It is the one where the student's ideas will be penned to pursue the existence towards the reality with respect to end user need.

Light Boxes

This is where the ideas of unregistered sculpture will be traced and reworked with respect to design modification



LIGHT BOXES



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2. Master drafting Table

Once the ideas have passed through the initial stages the final scrutinizing and combination of design for the creation of sculpture will be done on the master drafting.



Master drafting Table

Once the ideas have passed through the initial stages the final scrutinizing and combination of design for the creation of sculpture will be done on the master drafting.





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Master drafting Table Clay modeling work benches

Clay modeling is the realization phase of two-dimensional concepts to 3 dimensional contours. Polymer clay of industrial standards are used and clay modeling is done as per scale realized in drafting of concepts.





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Automotive Center of Excellence

INCUBATION CELL INCUBE



Incube is a multifaceted club which concentrates on over all development of student nurturing them in every single aspect of their career. Nurture tender brains to think original towards inventions and discoveries. To follow new era of pedagogy to apply theories practically to form better society and in turn better world. Probe young minds to identify effective need statements, conceptual thinking and approach to opt apt solutions. Off the boundaries interdisciplinary engineers should unite and work together to come up for advanced solutions. Incubate and Assist good ideas to grow as ultimate reality.

The incube undertakes various consultancy projects catering to different walks of life including projects serving the cause of society at large. Some of the projects executed are purely with the intent of helping the needy and underprivileged.



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Objectives

- To nurture the thinking and execution abilities of students
- To apply students engineering concepts and thoughts into ultimate reality of life
- To design and develop innovative products to reality and also to market addressing the right target crowd.
- To nourish students ideologies and ability to think creative, out of box and unique.
- To provide aid to industries organizations and needy people in society in order to increase their productivity and serve better to nation
- To provide internship opportunities for deserving students
- To bring in awareness in students about the recent trends in industry.
- To motivate students and faculties to transform themselves into an active researcher
- To enable and facilitate the research grants provided by organizations industries and institutions to researchers
- To establish the collaborations with industries, companies, and universities for research activities.
- To Convert novel ideologies of researcher to patent in order to secure researchers brain child's intellectual property rights.
- To make students feel the ownership and motivate them to be in charge for maintenance of center of excellence / incubation center/ consultancy activities and additional innovative labs under constant monitoring and able guidance of incubation head.
- To constantly conduct research meets and talks to enhance the knowledge and latest trends of technology.



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PATENTS FILED, PUBLISHED AND GRANTED

1) UTILITY PATENTS- PUBLISHED

<u>SI No</u>	<u>Title</u>	<u>Application No.</u>
1	An Efficient Pedicle Probe	201941002450
2	<i>A Method and Device for Efficient Probing in Bone Region</i>	201941010607
3	Economical Cross Over of Bionic Limb and Prosthetics	201941011020

2) DESIGN PATENT (FILED)

<u>SI No</u>	<u>Title</u>	<u>Application No.</u>
1	Motor Sport Frame	315854-001
2	Mini Chopper Bike Chassis	318796-001

3) DESIGN PATENT GRANTED

<u>SI No</u>	<u>Title</u>	<u>Application No.</u>
1	Mini Street Bike Chassis (Granted)	318797-001
2	Hybrid Tricycle Frame (Granted)	315854-002

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Hybrid Tricycle Frame

**ORIGINAL**
No. 75265

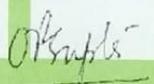
भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No.	315854-002
Date	18/03/2019
Reciprocity Date*	
Country	

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 12-11 in respect of the application of such design to HYBRID TRICYCLE FRAME in the name of MADHU MOHAN R #105/106, MATHRUSHREE NILAYA, 2ND MAIN, 4TH CROSS, SAPTAGIRI LAYOUT, NEAR DODDABIDREKAL, NAGASANDRA POST, BANGALORE - 560073, KARNATAKA, INDIA

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



Controller General of Patents, Designs and Trade Marks

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

*The reciprocity date (if any) which has been allowed and the name of the country.
Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years.
This Certificate is not for use in legal proceedings or for obtaining registration abroad.

MADHU MOHAN R.,
#105/106, MATHRUSHREE NILAYA, 2ND MAIN, 4TH
CROSS, SAPTAGIRI LAYOUT, NEAR
DODDABIDREKAL, NAGASANDRA POST,
BANGALORE - 560073, KARNATAKA, INDIA

Date of Issue 14/05/2019 17:20:07



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Mini Street Bike Chassis




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पेटेंट कार्यालय
THE PATENT OFFICE

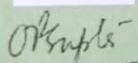
ORIGINAL
No. 79828

CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 318797-001
Date 17/06/2019
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 12-11 in respect of the application of such design to MINI STREET BIKE CHASSIS in the name of L.MADHU MOHAN R, #105/106, MATHRUSHREE NILAYA, 2ND MAIN, 4TH CROSS, SAPTAGIRI LAYOUT, NEAR DODDABIDREKAL, NAGASANDRA POST, BANGALORE - 560073, KARNATAKA, INDIA 2. NISHANTH SHETTY M, #5-102/3, DEVASA MANOOR, UDUPI TALUK/DISTRICT-576221, KARNATAKA, INDIA

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.


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AUTOMATION OF BIO MEDICAL /FRACTURE IMPLANTS

Application Details	
APPLICATION NUMBER	201941002450
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/01/2019
APPLICANT NAME	1 . MADHU MOHAN R 2 . Dr. GIRISHA C
TITLE OF INVENTION	AN EFFICIENT PEDICLE PROBE
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	madhu.mohan2526@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/01/2019

Application Status	
APPLICATION STATUS	Application Published

[View Documents](#)

Patent-1: AN EFFICIENT PEDICLE PROBE

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AUTOMATION OF BIO MEDICAL /FRACTURE IMPLANTS



Controller General of Patents, Designs and Trademarks
 Department of Industrial Policy and Promotion
 Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	201941010607
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/03/2019
APPLICANT NAME	1 . Madhu Mohan R 2 . Dr.Girisha C
TITLE OF INVENTION	A METHOD AND DEVICE FOR EFFICIENT PROBING IN BONE REGION
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	mohan2526@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/04/2019

Application Status

APPLICATION STATUS

Application Published

[View Documents](#)

Patent-2: A METHOD AND DEVICE FOR EFFICIENT PROBING IN BONE REGION

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AUTOMATION OF BIO MEDICAL /FRACTURE IMPLANTS



GOVERNMENT OF INDIA

Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	201941011020
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/03/2019
APPLICANT NAME	1 . Madhu Mohan R 2 . Dr. Girisha C
TITLE OF INVENTION	ECONOMICAL CROSS OVER OF BIONIC LIMB AND PROSTHETICS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	madhu.mahan2526@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/03/2019

Application Status

APPLICATION STATUS

Application Published

[View Documents](#)

Patent-3: ECONOMICAL CROSS OVER OF BIONI CLIMB AND PROSTHETICS

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Innovation and Entrepreneurship Policy

Summary on The Institution Has Created An Ecosystem For Innovations Including Incubation Centre And Other Initiatives For Creation and Transfer of Knowledge.

The Institution has established a vibrant ecosystem for the promotion of innovation and entrepreneurship. The Institution has established a separate department for all innovation and entrepreneurship related activities. It is called the Department for Inter disciplinary Research (DIR). The department is headed by Mr. Madhu Mohan R who has immense industry experience and research experience. His association with brands like Volkswagen, Ferrari and Lamborghini, seven design and utility patents, 16 funded projects by KSCST-IIC, Young Researched Award by AIIMS are a testimony to this. Through his vast experience, he is able to envision the ecosystem of Innovation and Entrepreneurship at the Institution and take the necessary steps to make this vision a reality.

Through the department, the Institution has created an Innovation and Entrepreneurship Policy, created the Institution's Innovation Council as per Ministry of Education's guidelines, and actively participates in ARIIA (Atal Ranking of Institutions on Innovation Achievements). Through IIC-AMC, DIR conducts events to educate students on all aspects of Innovation and Entrepreneurship like Design Thinking, IPR, Business Plan Creation, to name a few.

DIR has also partnered with KSCST to establish an Intellectual Property Cell within the Institution to secure IP generated by students and faculty.

To bridge the gap between Institution and Industry, INCUBER & Dand Consultancy was also established to provide Product Design and Development, Research Consultancy, and Engineering Services. INCUBE has provided its services to over seven Startups, MNCs and International Clients.

DIR also overlooks projects undertaken by students. DIR sets very high-quality standards for projects. The process that DIR follows ensures that students generate tangible innovative out comes that have a meaning fulmination society. DIR handholds students at every step to teach and guide them to develop successful products. Based on student interest and capability, these projects are either transferred as technology to



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industry, converted in to startups or further developed as per need statements.

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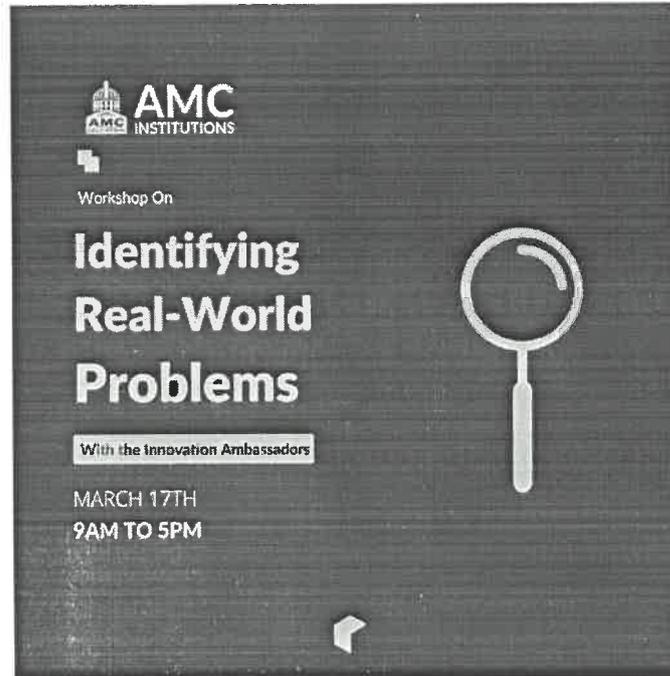


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Details Regarding Innovation Council and Ministry of Education's Guidelines

Identifying Real-World Problems:



A core aspect of design thinking is empathy. Stellar qualities of an exceptional human being is empathy. Empathy enables us to understand other people and their problems as our own. This motivates us to find a solution that alleviates their pain and suffering.

Empathy is a practiced skill. Department of Interdisciplinary Research constantly encourages students to go out into society, understand people of all strata and their problems as it is an engineer's duty to find solutions to people's problems. While these sessions happen all year round, we would like to bring attention to the most recent session on Identifying Real World problems held on

17th March 2022

If you have missed out on the session but would like to learn to identify problems and for more information, support, and feedback with regards to Innovation and Entrepreneurship, get in touch with the Department of Interdisciplinary Research.

website: <https://sites.google.com/amc.ac.in/innovationandentrepreneurship/home>

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AnkithHebbar P

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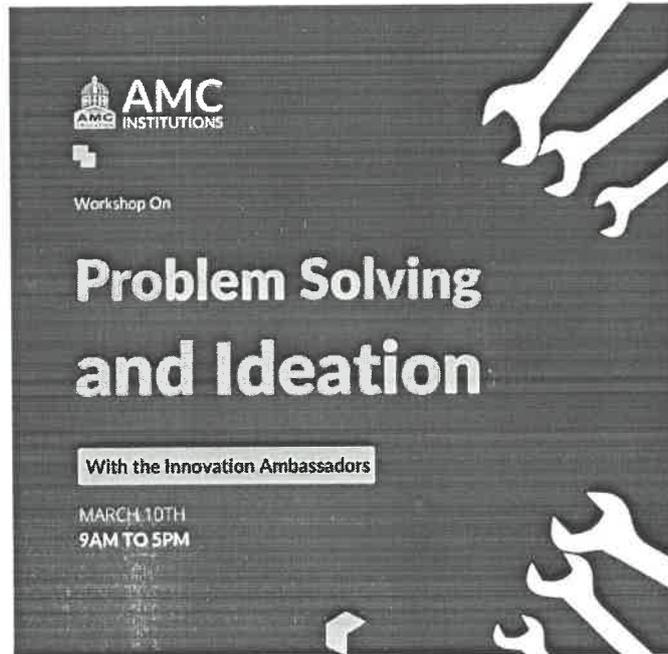
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Problem-solving and ideation:



Engineers are primarily problem solvers at heart. They solve everyday problems and complex problems with the help of Innovation. We at AMC are very keen on instilling the ability to solve problems and innovate in our young engineers. AMC Institution's very own Department of Interdisciplinary Research and Institution's Innovation Council are continuously engaged in fostering the spirit of Innovation and Entrepreneurship at the Institution. Innovation Ambassadors engaged students in a one day session on 10th March 2022, to teach Problem Solving and Ideation..

For more information, support, and feedback with regards to Innovation and Entrepreneurship get in touch with the Department of Interdisciplinary Research

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Pitch Your Ideas:



In line with keeping the culture of Innovation and Entrepreneurship alive at AMC, the Department of Interdisciplinary Research (DIR) continuously engages students to think, observe their surrounding problems, and solve those problems in real-time.

The Innovation Ambassadors from DIR and Institution's Innovation Council hold events where students pitch their ideas and receive feedback to ensure a steady path towards innovation. One such event was held on 22nd October, 2021.

These events are held all year round and for more information, support, and feedback with regard to Innovation and Entrepreneurship, get in touch with the Department of Interdisciplinary Research

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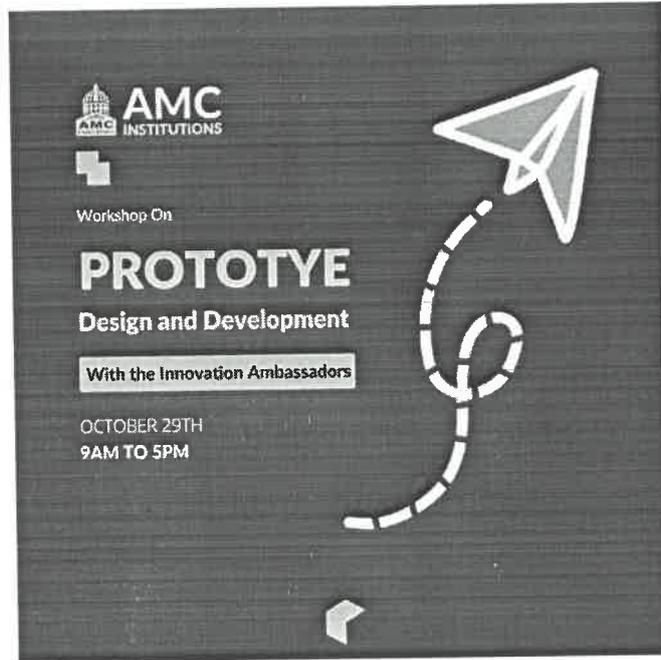
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Prototype Design and Development:



Bright young minds have bright innovative ideas. These out-of-the-box ideas tend to be revolutionary in nature. However, those opposed to change generally do not recognize and encourage these ideas.

AMC Institution's Department of Interdisciplinary Research and Institution's Innovation Council firmly believe that such young minds need to be empowered to bring their ideas to reality.

While prototyping, product design, and development is what the Department of Interdisciplinary Research continually engages in, the knowledge of the same was imparted to students in a week-long event that concluded on 29th October 2021

If you are keen on indulging in Prototype Design and Development or for more information, support, and feedback with regards to Innovation and Entrepreneurship, get in touch with the Department of Interdisciplinary Research

website: <https://sites.google.com/amc.ac.in/innovationandentrepreneurship/home>

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Seminar on Prototype Validation – Converting Prototype into a Startup:

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Approved by AICTE, New Delhi, Permanently Affiliated to VTU
(Accredited by NAAC and NBA)
18th K.M. Bannerghatta Road, Bengaluru - 560083

**Institution's Innovation Council
Lecture Series**

Accredited Programs: NBA, NAAC

Welcomes you all to the Seminar on
**"Prototype Validation -
Converting Prototype into a Startup"**

Resource Person

Dr. M G Anantha Prasad
CEO, AIC-JITF

Organized by: INSTITUTION'S INNOVATION COUNCIL AMC Engineering College
In Association With: INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD to Saurin)

18th June 2021
10:30 AM

Scan to Register

MHRD's Innovation Cell (Government of India)
MHRD Govt. of India

Bangalore is the startup capital of India and India aspires to be a 5 trillion dollar economy by 2025. The government envisions the progress of the nation, eradication of unemployment, and technological evolution through the startup ecosystem. Innovation and entrepreneurship are not qualities limited to startup founders. Those looking to scale the corporate ladder or those that chose to lead a meaningful life through other means, innovation, and entrepreneurial spirits can be invaluable tools. To promote the spirit of Innovation and Entrepreneurship among students, Institution's Innovation Council has organized a series of talks to foster I&E culture within the institution.

The first talk among many is on "Prototype Validation - Converting Prototype into Startup". The talk will be delivered by the CEO of Atal Incubation Center- JITF, Dr. M G Anantha Prasad. Scan the QR code to register for the event. Follow the Institution's youtube channel for a live session of the same.

For more information, support, and feedback with regards to Innovation and Entrepreneurship, get in touch with the Department of Interdisciplinary Research.

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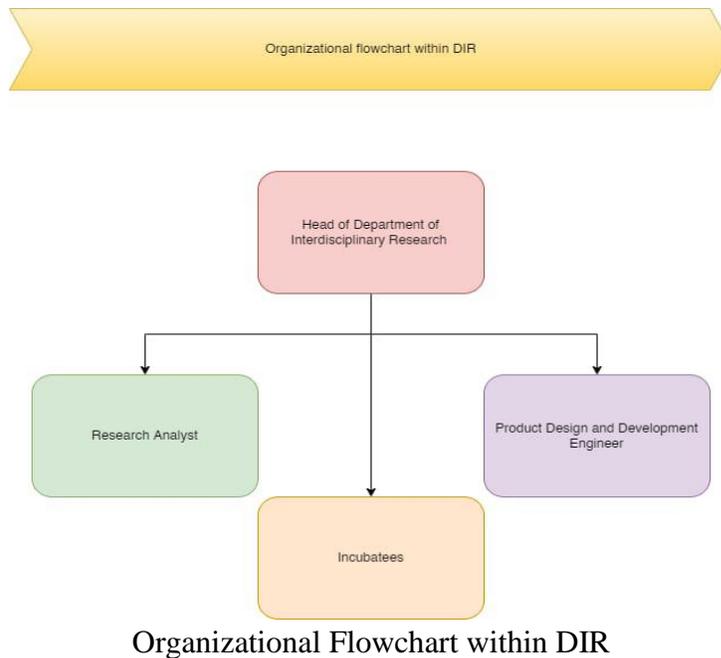
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DIR partnership details with KSCST to establish an Intellectual Property Cell:



The project team consists of students along with their respective guides. A project team and its performance are a reflection of the managerial capabilities and organizational contribution of the respective guides. The DIR insist the guides to involve with one or two projects that have been placed under their care, ensure that students put in efforts, provide students with the necessary guidance, track them to ensure they meet DIR requirements and deadlines for the benefit of all those involved.

During reviews, the students are insisted to get their topics finalized on the same day itself at starting of the semester. DIR are being told that guides and HODs have asked teams to carry on with their projects. Institution provided a CAPSTONE PROJECT REVIEW FORM templates and duly signed by guide and DIR regularly and ensure that students do not create the gap.

DIR along with project guide helps the students to finish their projects in time to achieve their respective TRLs get it evaluated in house and by DIR. Institute encourage the students to participate in State level , National level symposiums and project exhibition competitions.



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DIR initiate the final year project process from 6th semester, by allotting time for DIR to address them on induction program regarding how to do projects. HODs of all the department ensure that all work together to ensure achieve the vision, and growth of institution.

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Karnataka State Council for Science and Technology
(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)
Indian Institute of Science Campus, Bengaluru - 560 012
Telephone: 080 23341652, 23348848, 23348849, 23348840
Email: office.kscst@iisc.ac.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kcst.org.in

Mr. H. Hemanth Kumar

Executive Secretary

The Principal,
A.M.C. Engineering College,
18th Km, Bannerghatta Road, Bengaluru – 560 083.

7th April 2021 Ref: 7.1.01/SPP/10

Dear Sir/Madam,

Sub: Sanction of Student Project - 44th Series: Year 2020-2021
Your Project Proposal Reference No. : 44S_BE_2470

Ref: Your Project Proposal entitled "**SMART DEVICE FOR PHYSICALLY DISABLED USING ALEXA**"

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Students	Particulars	Budget	
		Amount (Rs)	
Ms. Charlotte Phillips			
Ms. Nandini S			
Ms. Sahana T S	Materials/Consumables	4,000.00	
Ms. Roopa M	Labour	-	
Guide/s	Travel	-	
	Miscellaneous	500.00	
Department	Report	500.00	
	Total	5,000.00	
FIVE THOUSAND RUPEES ONLY			

The following are the guidelines to carry out the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important: After completing the project, 21 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following points:
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

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Bengaluru - 560 083.

Executive Secretary

16th April 2021 Ref: 7.1.01/SPP/10

The Principal,
A.M.C. Engineering College, 18th Km,
Bannerghatta Road, Bengaluru – 560 083.

Dear Sir/Madam,

Sub: Sanction of Student Project - 44th Series: Year 2020-2021 **Your Project**
Proposal Reference No. : **44S_BE_2464**

Ref: Your Project Proposal entitled "**AI BASED HAND DRAWN ENGINEERING SYMBOL CLASSIFICATION AND RECOGNITION**"

We are pleased to inform that your student project proposal referred above has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Ms. Alikapati Keerthi Priya Ms. Gaganashree. N Ms. Hemalatha K.N Ms. Janaki SuthaChembeti	Budget	
		Particulars	Amount (Rs.)
Guide/s	Dr. T. Kavitha	Travel	500.00
		Miscellaneous	-
Department	Electronics And Communication Engineering	Report	500.00
		Total	5,000.00
FIVE THOUSAND RUPEES ONLY			

The following are the guidelines to carry out the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords


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BENGALURU - 560 083.



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Bengaluru - 560 083.

Executive Secretary

16th April 2021 Ref: 7.1.01/SPP/10

The Principal,
A.M.C. Engineering College, 18th Km,
Bannerghatta Road, Bengaluru – 560 083.

Dear Sir/Madam,

Sub : Sanction of Student Project - 44th Series: Year 2020-2021 **Your Project**
Proposal Reference No. : **44S_BE_2466**

Ref : Your Project Proposal entitled "**NON INVASIVE METHOD OF DEVELOPMENT OF
NUEROPROSTHETIC GADGET BASED ON EEG SIGNAL**"

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Mr. Achyuth S	Budget	
		Particulars	Amount (Rs.)
	Ms. Arpitha. R. Rao		
	Ms. Shifa Simran	Materials/Consumables	5,000.00
	Mr. Jeevith B	Labour	500.00
Guide/s	Mrs. Pratibha Kiran	Travel	500.00
		Miscellaneous	500.00
Department	Electronics And Communication Engineering	Report	500.00
		Total	7,000.00
SEVEN THOUSAND RUPEES ONLY			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords


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Executive Secretary

16th April 2021 Ref: 7.1.01/SPP/10

The Principal,
A.M.C. Engineering College, 18th Km,
Bannerghatta Road, Bengaluru – 560 083.

Dear Sir/Madam,

Sub: Sanction of Student Project - 44th Series: Year 2020-2021 **Your Project**
Proposal Reference No. : **44S_BE_2474**

Ref: Your Project Proposal entitled "**OPERATION OF DIESEL ENGINE FUELED WITH BIODIESEL AND IT VARIOUS BLENDS AFTER INCORPORATING WITH EXHAUST GAS RECIRCULATION (EGR) TECHNIQUE**"

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Mr. Rakshith B M	Budget	
		Particulars	Amount (Rs.)
	Mr. Nikhil Kc		
	Mr. Rakshith S	Materials/Consumables	4,000.00
	Mr. Manoj Kumar M A	Labour	500.00
Guide/s	Dr. C. Solaimuthu	Travel	500.00
		Miscellaneous	500.00
Department	Mechanical Engineering	Report	500.00
		Total	6,000.00
SIX THOUSAND RUPEES ONLY			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

Guide
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18th KM, Bannerghatta Road, Kalkere,
Bengaluru - 560 083.

Executive Secretary

16th April 2021 Ref: 7.1.01/SPP/10

The Principal,
A.M.C. Engineering College, 18th Km,
Bannerghatta Road, Bengaluru – 560 083.

Dear Sir/Madam,

Sub: Sanction of Student Project - 44th Series: Year 2020-2021 **Your Project**
Proposal Reference No. : 44S_BE_2475

Ref: Your Project Proposal entitled "**AUTOMATED MACHINE FOR LEAFY STRAW MANUFACTURING**"
We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Mr. Naveen N S	Budget	
	Mr. Hussain Sab	Particulars	Amount (Rs.)
	Mr. Akarsh Raj Ap	Materials/Consumables	4,000.00
	Mr. Ajith Poojary	Labour	-
Guide/s	Dr. Girisha C	Travel	500.00
	Prof. Madhu Mohan R	Miscellaneous	500.00
Department	Mechanical Engineering	Report	500.00
		Total	5,500.00
FIVE THOUSAND FIVE HUNDRED RUPEES ONLY			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

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Bengaluru - 560 083.

Executive Secretary

16th April 2021 Ref: 7.1.01/SPP/10

The Principal,
A.M.C. Engineering College, 18th Km,
Bannerghatta Road, Bengaluru – 560 083.

Dear Sir/Madam,

Sub: Sanction of Student Project - 44th Series: Year 2020-2021 **Your Project**
Proposal Reference No. : **44S_BE_4094**

Ref: Your Project Proposal entitled "**BIO COMPACTIBLE, LONG TIME STORABLE AND LEAK PROOF COATING FOR INTERNAL CAVITY OF BIODEGRADABLE BOTTLES**"

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Mr. Vivek L Mr. Manoj N	Budget	
		Particulars	Amount (Rs.)
	Mr. Rakesh Raghavendra L	Materials/Consumables	2,000.00
	Mr. Vishnuvarshan Reddy	Labour	-
Guide/s	Dr. Girisha C	Travel	500.00
	Prof. Madhu Mohan R	Miscellaneous	500.00
Department	Mechanical Engineering	Report	500.00
		Total	3,500.00
THREE THOUSAND FIVE HUNDRED RUPEES ONLY			

The following are the guidelines to carry out the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and softcopy of the full report in a CD (single file .pdf format only) should be submitted to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

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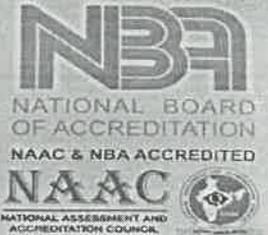
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**Final year Students innovative projects selection process for the financial assistance from VTU-
2020-21 Proceedings of the selection committee and the list of Project Proposals submitted for
Financial Assistance from
AMC Engineering College**

DEPT	SI NO	PROJECT TITLE	STUDENT GROUP		SUPERVISOR	REMARKS (VTU-NOMINEE)
			USN NO	NAME		
CS	1	OVEN AUTOMATION USING IOT AND ML THROUGH IMAGE PROCESSING	IAM17CS101	Menahi Shayan	Dr. Latha C A Mrs. V. R.Srividhya	Novel Project. Recommended for funding
			IAM17CS121	Nishank Swamy		
			IAM17CS132	Podaralla Revathi		
	2	PREDICTION OF AUTISM SPECTRUM DISORDER (ASD) USING MACHINE LEARNING	IAM17CS170	Sanjay K	Ms. Srividhya Ganesan Dr. Latha.C.A	Early prediction of autism in kids helps to understand learning capacities of youngsters. Recommended for funding
			IAM17CS178	Shivakiran Sastry G		
			IAM17CS194	Sriram Manideep		
IS	3	MUDRA- MULTIPLATFORM UTILITY DEVICE FOR RECOGNIZING ACTIONS	IAM17IS003	Amar R	Dr. Ganga Holi	Controlling devices using gestures has become the order of the date. Hence recommended for funding.
			IAM17IS030	Jesi S		
			IAM17IS036	Lakshmi Priya G		
			IAM17IS053	Mohit Notani		
	4	BEHAVIOURAL ANALYSIS OF E-COMMERCE WEB APPLICATION BY USING THE CONCEPTS OF AGILE-DEVOPS USING DOCKER	IAM17IS058	Navanith B S	Dr. M.V.Sudhamani	DevOps make it easier by bringing in a new flow across SDLC and addresses key aspects of the DevOps environment by automating the process chain using Build, Test, Deploy and Release features. Docker is one such automation tool. Students have used Docker for deploying the website and analysing the behaviour of the web applications
			IAM17IS048	Meghana S		
			IAM17IS020	Deepthi C R		
			IAM17IS034	Kiran M S Aradhyamatt		
ME	5	RECYCLING PET (POLYETHYLENE TEREPHTHALATE) SINGLE USE PLASTIC BOTTLES IN TO 3D PRINTER RAW MATERIAL BY MODIFIED DISPENSER OF 3D PRINTER.	IAM15ME196	Tejesh R	Prof.Madhumohan.R	As there is saying "Each Penny Counts" it's good to see the way project has concentrated on small scale renewable approach for PET bottles n convert them into raw material for emerging n ruling technology of additive manufacturing for better world.
			IAM17EE030	Suraj TP		
	6	FABRICATION OF WASTE PLASTIC BRICK MAKING MACHINE	IAM17ME021	Chethan kumar	Prof.Santhosh kumar B.K	Pastic waste has become a huge problem to the society. Hence use of plastic waste in convert it into useful products which is non toxic is very much required. Recommended for financial assistance.
			IAM17ME057	Pavan kumar N		
			IAM17ME055	Nithin V		
			IAM17ME026	Dushyanth Gowda		

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18th KM, Bannerghatta Road, Kalkere,
Bengaluru - 560 083.

Executive Secretary

16th April 2021 Ref: 7.1.01/SPP/10

The Principal,
A.M.C. Engineering College, 18th Km,
Bannerghatta Road, Bengaluru – 560 083.

Dear Sir/Madam,

Sub : Sanction of Student Project - 44th Series: Year 2020-2021 **Your Project**
Proposal Reference No. : 44S_BE_4095

Ref : Your Project Proposal entitled "**ARTIFICIAL INTELLIGENCE BASED MULTIPURPOSE
INTERACTIVE HUMANOID ROBOT FOR SERVICE BASED APPLICATIONS**"

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Mr. Keerthan N Naik Mr. Bharath R	Budget	
		Particulars	Amount (Rs.)
		Materials/Consumables	6,000.00
		Labour	500.00
Guide/s	Dr. Girisha C	Travel	500.00
	Prof. Madhu Mohan R	Miscellaneous	500.00
Department	Interdisciplinary (Me &Eee)	Report	500.00
		Total	8,000.00
EIGHT THOUSAND RUPEES ONLY			

The following are the guidelines to carry out the project work :

- The project should be performed based on the objectives of the proposal sent by you.
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- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
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 - Name of the students & Guide(s)
 - Keywords

Guide
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18th KM, Bannerghatta Road, Kalkere,
Bengaluru - 560 083.

Executive Secretary

16th April 2021 Ref: 7.1.01/SPP/10

The Principal,
A.M.C. Engineering College, 18th Km,
Bannerghatta Road, Bengaluru – 560 083.

Dear Sir/Madam,

Sub: Sanction of Student Project - 44th Series: Year 2020-2021 **Your Project**
Proposal Reference No. : **44S_BE_2458**

Ref: Your Project Proposal entitled "**ECO-FRIENDLY AATHMANIRBHAR ENERGY STORAGE SYSTEM FOR ALL PURPOSES**"

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Student / s	Mr. Shashidhar S	Budget	
	Mr. Saif Khan M	Particulars	Amount (Rs.)
	Mr. Shankar S Baddur	Materials/Consumables	3,500.00
	Mr. Shreyas B V	Labour	-
Guide/s	Prof. M K Kiran	Travel	-
	Prof. Madhu Mohan R	Miscellaneous	-
Department	Electrical And Electronics Engineering	Report	500.00
		Total	4,000.00
FOUR THOUSAND RUPEES ONLY			

The following are the guidelines to carry out the project work :

- The project should be performed based on the objectives of the proposal sent by you.
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- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :

- Title of the project
- Name of the College & Department
- Name of the students & Guide(s)
- Keyword

Keywords

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CIV	7	AUTOMATED GRADER FOR MCQ & HANDWRITTEN ANSWER SHEETS USING IMAGE PROCESSING	1AM17EC110	Shaik Nasreen	Dr. Aruna R	Very low cost and effective method for correcting OMR & handwritten answers. Machine learning and Image processing is used to test the data
			1AM17EC130	Uzma		
			1AM17EC109	Sanjana B		
			1AM17EC070	Nishmitha C V		
	8	PREVENTION OF COVID-19 AT COLLEGE CAMPUS	1AM17EC135	Vidya D Y	Dr. Jenitta J	COVID-19 pandemic is very devastating and with continuously mutating coronavirus It is very important to stop the spread of the virus. Any method adapted using technology to stop the spread is welcome. Recommended for funding
			1AM17EC111	Shivesh Varma P		
			1AM17EC116	Shrusti B K		
			1AM17EC137	Vinay S Sinnur		
9	IMPROVING THE CHARACTERISTIC STRENGTH OF PERVIOUS CONCRETE FOR HEAVY VOLUME TRAFFIC PAVEMENT	1AM17CV007	Anusha TM	Prof. Ganesh SSY Prof. Ravitheja N	During storm water flow, pavements are subjected to deterioration due to water logging. This project innovative work has great promise towards achieving expulsion of water from concrete pavements by creating honeycomb lattices which will act as drainage paths	
		1AM17CV030	Nissarahmed			
		1AM17CV034	Poojitha G			
		1AM18CV401	Chandrika M			
10	INNOVATIVE TECHNIQUE FOR CORROSION MANAGEMENT OF REINFORCED CONCRETE STRUCTURES	1AM17CV049	Yogesh C	Prof. Nischitha S Y Prof. Ravithej N	Vulnerability of structures to corrosion of RC Structures focusses on Management using simple field techniques.	
		1AM17CV050	Maruthi K R			
		1AM17CV035	Prathik Gowda			
		1AM17CV042	Shivkumar N			



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EEE	11	SMART HYBRID VEHICLE MOBILITY SOLUTION USING ARTIFICIAL INTELLIGENC E	1AM17EE030	Suraj T P	Prof. Shilpa Acharya Prof. Madhu Mohan	In view of the increasing fuel price it is good to move towards Green technology. Recommended for financial assistance
			1AM17EE005	Bharath R		
			1AM17EE014	Manish Kumar		
			1AM17EE016	Nanda Kumar D		
	12	AUTONOMOU S DRIVE USING MACHINE LEARNING	1AM17EE021	Ratan Sanjay	Prof. Shruthi G Prof. Madhu Mohan	Autonomous driving within the campus will help in avoiding accidents and also reduce CO2 emission. Recommended for funding
			1AM17EE018	Nikhil G A		
			1AM17EE003	Akshay A S		
			1AM17EE015	Manjunath A M		

Coordinator: Dr. Girisha. C,

VTU-Nominee: Dr. S. Kiran,

Principal-AMCEC: Dr.A.G.Nataraj

Dr. S. KIRAN
Professor and Head
Department of Biotechnology Engineering
Dnyananda Sagar College of Engineering
Bileige Muttasara Hills, Kumaraswamy Layout
Bengaluru-560 078.

A.G. Nataraj
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BENGALURU - 560 083.

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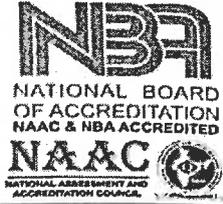
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No.:

FORM GFR 19-A UTILIZATION CERTIFICATE KSCST : STUDENT PROJECT PROGRAMME - 44th SERIES

Sl. No.	Letter No. and date	Amount (Rs.)	Certified that KSCST has provided partial financial support of Rs. 44, 000/- towards Student Project Programme - 44 th Series
1	7.1.01/SPP/10 And 16th April 2021	44,000/-	A sum of Rs 44, 000/- only has been utilized for the purpose of Student Project Programme for which it was sanctioned.

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly / are being fulfilled and that I have exercised the following check to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of Checks exercised.

01. Cash Book
02. Vouchers

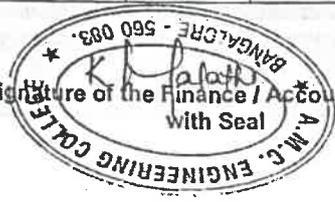
Sl No	Project Proposal Ref. No.	Title of the Project	Department/ Guide	Amount Sanctioned by KSCST	Amount Utilized by the College	Balance if any to be refunded to KSCST
1.	44S_BE_2458	Eco-Friendly Aathmanrbhar Energy Storage System For All Purposes	Electrical And Electronics Engineering/Prof. M K Kiran Prof. Madhu Mohan R	4000.00	4000.00	-NIL-
2.	44S_BE_2464	AI Based Hand Drawn Engineering Symbol Classification And Recognition	Electronics And Communication Engineering/Dr. T. Kavitha	5000.00	5000.00	-NIL-
3.	44S_BE_2466	Non-Invasive Method Of Development Of Neuroprosthetic Gadget Based On Eeg Signal	Electronics And Communication Engineering/Mrs. Pratibha Kiran	7000.00	7000.00	-NIL-
4.	44S_BE_2470	Smart Device For Physically Disabled Using Alexa	Computer Science And Engineering/Dr. Latha C A Mrs. Shalini S	5000.00	5000.00	-NIL-
5.	44S_BE_2474	Operation Of Diesel Engine Fueled With Bio-Diesel And Its Various Blends After Incorporating With Exhaust Gas Reclrculation (Egr) Technique	Mechanical Engineering/Dr. C. Solaimuthu	6000.00	6000.00	-NIL-
6.	44S_BE_2475	Automated Machine For Leafy Straw Manufacturing	Mechanical Engineering/Dr. Girisha C Prof. Madhu Mohan R	5500.00	5500.00	-NIL-
7.	44S_BE_4094	Bio Compactible, Long Time Storable And Leak Proof Coating For Internal Cavity Of Biodegradable Bottles	Mechanical Engineering/Dr. Girisha C Prof. Madhu Mohan R	3500.00	3500.00	-NIL-
8.	44S_BE_4095	Artificial Intelligence Based Multipurpose Interactive Humanoid Robot For Service Based Applications	Interdisciplinary (Me & Eee)/ Dr. Girisha C Prof. Madhu Mohan R	8000.00	8000.00	-NIL-

Girishae
Signature of the Principal
AMC ENGINEERING COLLEGE
BENGALURU-560 083.

K. Malath
Signature of the Finance / Accounts Officer
with Seal

Date: 29/9/21

Place: Bengaluru



18th K.M, Kalkere, Bannerghatta Road, Bangalore - 560083. AMC Engineering College, Admissions: 99020 44113. Office: 99020 44114
Principal Cell: 99020 44111. Telefax: 080-27828656. Email: principal@amcec.edu.in Website: www.amcgroup.edu.in

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No.: 0384

FORM GFR 19-A

UTILIZATION CERTIFICATE

VTU : FINANCIAL ASSISTANCE FOR INNOVATIVE PROJECTS OF FINAL YEAR UG STUDENTS FOR THE YEAR 2020-21.

Sl. No.	Letter No. and date	Amount (Rs.)	
01	VTU/BGM/PS /2021-22/10716 & 6/05/2021	60,000/-	Certified that VTU has provided financial Assistance of Rs. 60,000/-towards Innovative Projects of Final Year UG Students For the Year 2018-19. A sum of Rs. 60,000/-only has been utilized for the purpose of Student Project Programme for which it was sanctioned.

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly / are being fulfilled and that I have exercised the following check to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of Checks exercised.

01. Cash Book
02. Vouchers

Sl No	Program	Title of the Project	Guide	Amount Sanctioned by VTU	Amount Utilized by the College	Balance if any to be refunded to VTU
1.	Computer Science and Engineering	Oven Automation Using Iot And Mi Though Image Processing	Mrs. V. R.Srividhya & Dr. Latha CA	5000/-	5000/-	NIL
2.		Prediction Of Autism Spectrum Disorder (Asd) Using Machine Learning	Ms. Srividhya Ganesan & Dr. Latha CA	5000/-	5000/-	NIL
3.	Information Science and Engineering	Behavioural Analysis Of E-Commerce Web Application By Using The Concepts Of Agile-Devops Using Docker	Dr. M.V.Sudhamani	5000/-	5000/-	NIL
4.		Mudra-Multiplatform Utility Device For Recognizing Actions	Dr. Ganga Holi	5000/-	5000/-	NIL
5.	Electronics and Communication Engineering	Automated Grader For Mcq & Handwritten Answer Sheets Using Image Processing	Dr. Aruna R	5000/-	5000/-	NIL

Girish

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BENGALURU - 560 083.

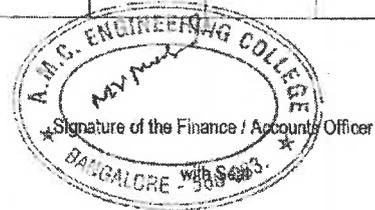


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6.		Prevention Of Covid-19 At College Campus	Dr. Jenitta J	5000/-	5000/-	NIL
7.	Mechanical Engineering	Recycling Pet (Polyethylene Terephthalate) Single Use Plastic Bottles In To 3d Printer Raw Material By Modified Dispenser Of 3d Printer.	Prof. Madhu Mohan R	5000/-	5000/-	NIL
8.		Fabrication Of Waste Plastic Brick Making Machine	Prof.Santhosh kumar B.K	5000/-	5000/-	NIL
9.	Electrical and Electronics Engineering	Smart Hybrid Vehicle Mobility Solution Using Artificial Intelligence	Prof. Shilpa Acharya & Prof. Madhu Mohan	5000/-	5000/-	NIL
10.		Autonomous Drive Using Machine Learning	Prof. Shruthi G & Prof. Madhu Mohan	5000/-	5000/-	NIL
11.	Civil Engineering	Improving The Characteristic Strength Of Pervious Concrete For Heavy Volume Traffic Pavement	Prof. Ganesh SSY & Prof. Ravitjej N	5000/-	5000/-	NIL
12.		Innovative Technique For Corrosion Management Of Reinforced Concrete Structures	Prof.Nischitha S Y & Prof. Ravitjej N	5000/-	5000/-	NIL

Guise
Signature of the Principal
with Seal



Date: *4*
Place: *Bangalore*

Guise
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AMC

ENGINEERING COLLEGE

Affiliated to Visvesvaraya Technological University, Belagavi.
Recognised by Govt. of Karnataka, Approved by AICTE, New Delhi.
Accredited by NAAC & NBA (2009-2012), Ministry of HRD, New Delhi.



No.:

UTILISATION CERTIFICATE

KSCST : STUDENT PROJECT PROGRAMME – 44th SERIES

Date : 29/09/2021

This is to certify that A.M.C. ENGINEERING COLLEGE, BENGALURU having its institution at 18th KM, Bannerghatta Road, Bengaluru-560083, Karnataka has been granted a sum of Rs. 44000/- (Rupees Forty Four Thousand only) has been credited vide NEFT : P148210110028758 (Transaction Id) dated 28/05/2021 (Transaction date) to UNION BANK OF INDIA. (Name of the bank credited). Account No. 435302010006932 from Karnataka State Council for Science and Technology (KSCST) vide their Grant sanction letter Ref. No. 7.1.03/SPP/10 dated 16th April 2021 towards 44th Series Student Project Programme (SPP) – (1) 44S_BE_2458 (2) 44S_BE_2464 (3) 44S_BE_2466 (4) 44S_BE_2470 (5) 44S_BE_2474 (6) 44S_BE_2475 (7) 44S_BE_4094 (8) 44S_BE_4095

The college has incurred the expenditure of Rs. 44,000/- (forty four thousand rupees) towards the said project/s.

All the expenditure voucher / invoices are duly accounted by the college and is authenticated by the Principal and Accounts Officer / Finance Officer of our institution.

The above information is extracted from the books of accounts and documents produced before us and information and explanations provided to us. We further certify that, we have verified the relevant books of accounts and documents / bills / vouchers and found that the said amount has been utilized for the purposes as laid down by the Karnataka State Council for Science and Technology (KSCST). This certificate is provided by us at the specific request of Karnataka State Council for Science and Technology (KSCST) to evidence the utilization of grants in terms of above referred grant sanction letter dated 16th April, 2021.

Girish
Signature of the Principal
PRINCIPAL
AMC ENGINEERING COLLEGE
BENGALURU - 560 083.

K. Malathi
Signature of the Finance / Accounts Officer
with Seal
BANGALORE - 560 083.

Date: 29/9/21
Place: Bangalore.



Girish
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NISHCHAYA TECH SOLUTIONS

E-mail: ops@nishchaya.com Website: www.nishchaya.com
GSTN: 36AHXPB8245N1ZK

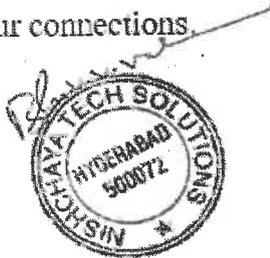
TO WHOMSOEVER IT MAY CONCERN

This document is a confirmation of the product development services provided by INCUBE-AMC and Mr Madhu Mohan R, Founder and Head of INCUBE R&D and Consultancy, Head of Department of Interdisciplinary Research, to Nishchaya Tech Solutions.

Nishchaya Tech Solutions is a company focused towards design, development, and manufacturing of hardware design, software & integrated circuits. A product development agreement was signed between Nishchaya Tech Solutions and INCUBE-AMC for "Design and Development of electronics enclosure with variable support mechanisms"

The service worth about 2.5 lakhs was delivered with highly satisfactory results. We have an ongoing collaboration with INCUBE-AMC for growth, product development and further research.

We are happy to recommend their research and product development expertise to our connections.



Bhetalam Vishnu Vardhana Varma
Proprietor, Nishchaya Tech Solutions.
Cell Phone: 9487802345.

Girish
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My Terra

TO WHOMSOEVER IT MAY CONCERN

This document is a confirmation of the product development services provided by INCUBE-AMC to My Terra.

My Terra is a Start Up focused towards ensuring Commercial Solutions in a Green and a Sustainable way. A product development agreement was signed between My Terra and INCUBE-AMC for "Automation of toilet seat sanitization and cleaning"

The service worth about 10 lakhs was delivered with highly satisfactory results. We have an ongoing collaboration with INCUBE-AMC for growth, product development and further research.

We are happy to recommend their research and product development expertise to our connections.

Best Regards

Mansi Chadha

#57, 1st Cross, 1st Main, RMV 2nd Stage, New BEL Road, Bangalore - 560094
+91 9886063583, myterra21@gmail.com


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A
AQUARELLE

To whomsoever it may concern

This document is a testimony to our collaboration with AMC Engineering College, Bangalore, in the past and in the future. We have availed the services of the institution for technical assistance worth over 12 lakh rupees. These fruitful collaborations of the past have fortified our faith in the institution.

Aquarelle India Private Limited would like to state that the product development service for "Automation of Sewing Machine" has been successfully delivered with satisfactory post-delivery support. We are most pleased with the provided solution and recommend INCUBE-AMC for engineering consultancy and product development support.

Head of Department Signature

Ashok kurbar



Global Head - Industrial Engineering

AQUARELLE INDIA PVT LTD

Registered Office:

No. 94 & 95, New No. 113, Bull Temple Road,
Bannerghatta, Bengaluru, INDIA 560 019

GSTIN No.: 29AAGCA12030271 T: +91 80 45151600 admin@aquarelleindia.com
CIN No.: U17299KA2007PTC062492 F: +91 80 26655099 www.aquarelleindia.com
Factory 1.No. 1/1, and 51/1, Kalkatulu Village, Jigani Hobli, Ankal Tq. Bengaluru - 560165
Ph: 080-29795651, 080-29795652, 080-29795653

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Green Wheel Ride



To Whomsoever it may concern

This document is a confirmation of the R&D services provided by INCUBE-AMC to Green Wheel Ride in the year 2020-21.

Green Wheel Ride is primarily a micro-mobility solution provider. A research and development agreement was signed between Green Wheel Ride and INCUBE-AMC for "Improving the power IC of engines by two times with lesser fuel intake". The service was delivered with highly satisfactory results and we are happy to recommend their research and product development expertise to our connections.

For Green Wheel Ride
[Handwritten Signature]
Patel

Authorized Signature

Green Wheel Ride
MCC Zone Campus, Krishnamurthy Puram, Mysore 570004.
0821 2330000 greenwheelride@gmail.com

[Handwritten Signature]
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NON - DISCLOSURE AGREEMENT

This NON DISCLOSURE AGREEMENT (hereinafter referred to as "Agreement") is entered into on this 16th day of January 2022 ("Effective Date") at AMC Engineering College, Bangalore by INCUBE R&D & Consultancy and Sri Siddhartha Medical College between

Sri Siddhartha Medical College, a private medical college and hospital in Tumkur, Karnataka, India, represented through its representative, Principal of SSMC, Dr Sushil Chandra Mahapatra (hereinafter referred as "SSMC", which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the FIRST PART.

AND

INCUBE, a Research and Development Consultancy Unit of AMC ENGINEERING COLLEGE, (hereinafter referred as "Vendor") of the SECOND PART.

SSMC and Vendor are hereinafter together referred to as the "parties".

For purposes of this Agreement,

- (a) "Disclosing Party" shall mean Party disclosing any particular item of Confidential Information (or, where appropriate, Party about whom such Confidential Information relates to). For the purpose of this Agreement, SSMC is the Disclosing Party.
- (b) "Recipient" shall mean in relation to any particular item of Confidential Information the Party which receives such information pursuant to this Agreement, or otherwise obtains such information.). For the purpose of this Agreement, Vendor is the Recipient.
- (c) Disclosing Party and Recipient are hereinafter collectively referred to as "Parties" and individually as the "Party".

WHEREAS

1. The Parties intend to engage in discussions and negotiations for the purpose of potentially establishing business relationships between them. In the course of such discussions and negotiations, it is anticipated that either Party may disclose or deliver to the other Party certain of its or that of its client's trade secrets or Confidential Information or proprietary information for the purpose of enabling the other Party to evaluate the feasibility of such business relationship. The Parties have entered into this Agreement to assure the confidentiality of such trade secrets and confidential or proprietary information in accordance with the terms of this Agreement.
2. The Parties agree that the following terms and conditions shall apply to all disclosures of Confidential Information by the Disclosing Party to the Recipient which are not covered by specific provisions under separate agreements.

NOW THEREFORE this Agreement witnesseth that, in consideration of the disclosure of the Confidential Information (as hereinafter defined) to the Recipient and the promises hereinafter contained, the Recipient agrees as follows:

1. The term "Confidential Information" means any information (for example, oral, written or other tangibly reduced information) disclosed by or on behalf of the Disclosing Party and / or an information which has been marked as "CONFIDENTIAL" under the terms of this Agreement or under the circumstances of disclosure, ought in good faith to be understood by the Recipient to be confidential and disclosed/furnished for and in relation to the Purpose/Potential Transaction (emails expressly included), to the Recipient by the Disclosing Party. The Confidential Information for the Potential Transaction shall mean information disclosed to, or otherwise

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acquired or observed by a Party including its directors, officers and employees (collectively, "Representatives"), from the Disclosing Party, its officers and employees relating to the business of the Disclosing Party, whether communicated in writing, orally, electronically, photographically, or in recorded or any other form, including, but not limited to, existing and potential business and plans and any strategies, audio-visual contents (shows/programs/events etc.), clips of any content, financial information, cost and pricing information, data media, know-how, designs, drawings, specifications, source codes, technical information, concepts, ideas, promotional ideas, its plans and strategies, personally identifiable information, if any, like name, address, telephone/cellular number, including sensitive personal data or Information as defined under The Information Technology (Reasonable Security Practices and Procedures and Sensitive Personal data or Information) Rules, 2011, the like, whether or not the foregoing information is patented, tested, reduced to practice, or subject to copyright.

2. Confidential Information does not include any Information which the Recipient can prove:
 - a. was at the time of disclosure or thereafter became part of the public domain through no act or omission of the Recipient;
 - b. became available to the Recipient from a third party who did not acquire such information under an obligation of confidentiality either directly or indirectly from the Disclosing Party, nonetheless, in this instance, the Recipient agrees that the information is subject to the other Clauses in the Agreement;
 - c. is independently developed by the Recipient and/or its Representatives without breach of this Agreement; or
 - d. was known to the Recipient before the time of its disclosure by the Disclosing Party to the Recipient; or
 - e. is required to be disclosed by law or regulations, order of the court of competent jurisdiction or an appropriately empowered governmental, statutory or regulatory agency. In such a case of compelled disclosure, the Recipient will provide a reasonable prior notice to the Disclosing Party and will not oppose any efforts by the Disclosing Party to seek a protective order.
3. The Recipient shall have the right to communicate Confidential Information only to those directors, officers, employees and Representatives of the Recipient whose duties justify the need to know such information for commercial purpose.
4. The Recipient shall use all reasonable and prudent efforts to keep the Confidential Information confidential and to protect and safeguard the Confidential Information from misuse, loss, theft, publication, destruction or the like. The Recipient and its Representatives will protect the Confidential Information by using the same degree of care, but no less than a reasonable degree of care, to prevent the unauthorized use, dissemination or publication of the confidential information as Recipient uses to protect its own confidential information.
5. The Recipient shall refrain from using or attempting to use the Confidential Information in any way, except for the purpose stated above, without the written approval of the Disclosing Party. Unless otherwise specifically stated above, the Recipient shall not utilise the Confidential Information for any purpose whatsoever, without the written approval of the Disclosing Party.
6. The Recipient shall, at the date of completion of transaction, return all Confidential Information in its possession, including all documents and other materials containing, relating to or based upon any Confidential Information. The Recipient shall execute an apposite declaration stating that any Confidential Information has been returned. In case of Confidential Information prepared by the Recipient and relating to or based upon any Confidential Information disclosed to the Recipient by or on behalf of the Disclosing Party, the Recipient may satisfy its obligation to return the Confidential Information by delivering to the Disclosing Party such information/documents. The Recipient agrees that all Confidential Information is and remains the sole property of the Disclosing Party.


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7. The Recipient understands and agrees that the Confidential Information is information of a confidential nature to the Disclosing Party, and that the public release of this information may cause irreparable damage to the Disclosing Party. The Confidential Information is being disclosed by the Disclosing Party in specific reliance on the commitments and representations of the Recipient in this Agreement. The Recipient acknowledges that damages may not be sufficient remedy to the Disclosure for any breach of this Agreement and hence it is accordingly agreed by the Recipient that the Disclosing Party shall be entitled to injunctive relief to prevent breaches of this Agreement and to specifically enforce the terms and provisions hereof, in addition to any other remedy to which the Disclosing Party may be entitled at law or in equity.
8. This Agreement shall come into effect on the Effective Date of this Agreement and shall remain in effect for three (3) years unless terminated earlier by either Party with 30 (Thirty) days prior written notice to the other Party.
9. Neither Party shall, without the prior written consent of the other, make any public statement, announcement, publication or release of any Confidential Information or the transactions between both the Parties, including, without limitation, the existence of the discussions between the Parties concerning any proposed transactions.
10. In the event that a Recipient is requested or required to disclose any Confidential Information subject to this Agreement in a legal or regulatory proceeding, such Party shall provide the Disclosing Party with prompt written notice of any such request or requirements in order to provide the Disclosing Party an opportunity to seek a protective order or other appropriate remedy. The Parties shall cooperate with each other and their respective counsel in any Party's efforts to prevent such disclosure of Confidential Information.
11. The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision or provisions of this Agreement.
12. Nothing herein shall constitute an agreement to transfer or license or to grant any patent, copyright, trademark rights of either Party to the other Party. Except for the Purpose/Potential Transaction as stated above, the Recipient shall not have right to duplicate, copy, distribute, disclose, use or permit the use of such Confidential Information and disseminate internally and/or externally the Confidential Information in any manner, way or form.
13. All notices and other communications made pursuant to this letter Agreement shall be deemed to have been duly given in writing and hand-delivered, sent by fax with copy by mail (or by overnight courier delivery) or sent by recognized overnight courier service to the address of applicable Party set forth on the first page hereof, to the attention of the officer executing this Agreement on behalf of such party, or to any other address that such Party may designate by written notice to other Parties. Notices delivered in person or by overnight courier shall be effective when so delivered. Faxed notices shall be effective upon receipt of confirmation of transmission, provided that a copy is subsequently received by overnight courier.
14. Without the prior written consent of the other Party, neither Party nor their representatives will (i) disclose to any person the fact that any discussions or negotiations are taking place concerning a Potential Transaction, or any of the terms, conditions or other facts with respect to any Potential Transaction, including the status thereof or (ii) make any public or private announcement or statement concerning or relating to a Potential Transaction. The term "person" as used in this Agreement shall be broadly interpreted to include without limitation any corporation, company, group, partnership and individual.
15. This Agreement shall be governed by and interpreted in accordance with the laws of India and the Parties submit to the jurisdiction of Court of Bangalore for the purposes of enforcement of the terms hereof.

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IN WITNESS WHEREOF the Parties have caused this Agreement to be executed by their duly authorized representative as of the day and year first set forth above

For
SSMC

(NAME OF VENDOR / CLIENT)
INCUBE R&D AND CONSULTANCY


17/02/22
Dr. Sushil Chandra Mahapatra
Principal (M.B.B.S., M.D.)
Sri Siddhartha Medical College
B.H. Road, Tumkur.

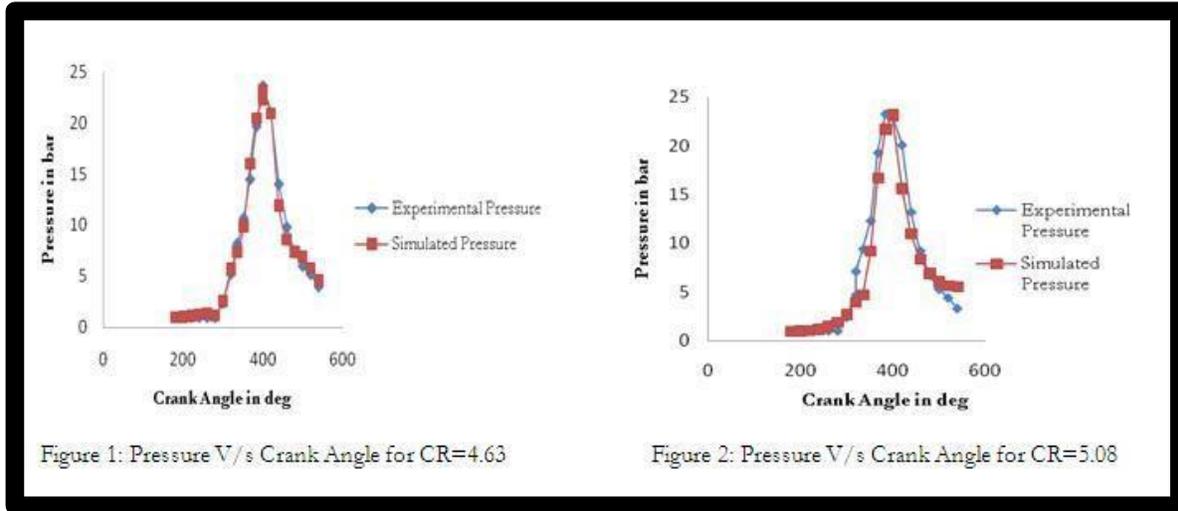
Name:
Designation:

Name: Mr Madhu Mohan R
Designation: Founder


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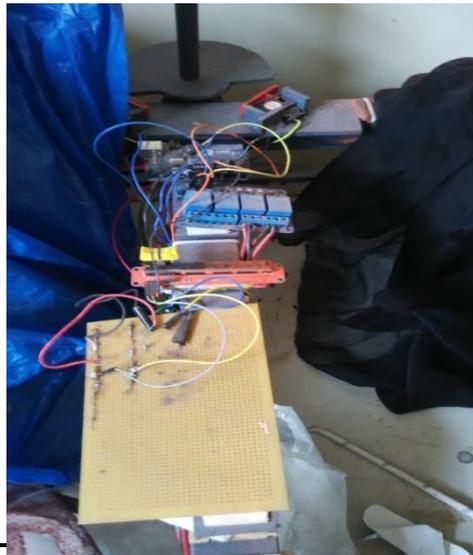
TECHNICAL RESEARCH

DATA ACQUISITION FOR DIGITAL PLOTTING OF P-θ DIAGRAM IN AN IC ENGINE:



This project is based on enhancing the knowledge about pressure inside the engine and crank angle and how actually the graph of pressure versus crank angle looks like and displayed on the screen with the application of sensors. The main objective of this project is to digitally plot P-θ diagram in an IC engine.

Smart Turn Indicators:



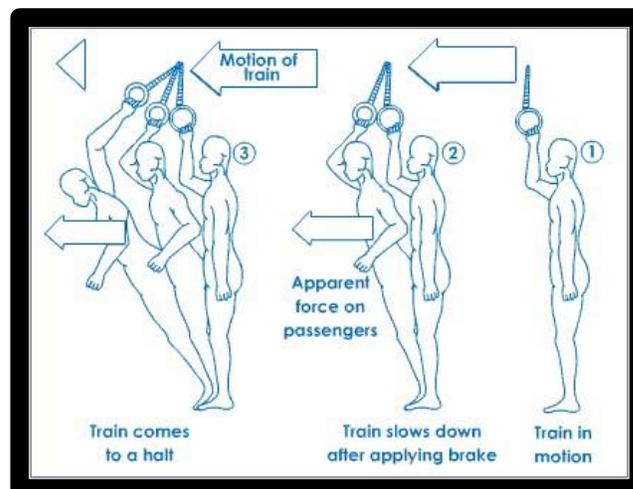
To assist the turning process by automatically turning on the indicators if the indicators are not manually switched on. To help minimize the number of accidents on road and ensure road safety. To help enforce lane discipline among drivers.

Design & Development of Sustainable Bumpers using Disposable Tyres:



Tyre recycling belongs to a field of sustainable development as the recycling of used products results in valuable raw materials that can be used for manufacturing products with a new value. The outcome of project yields components with increased refractive ability and possibly increases the impact force of the components which have a long life and resistant to lower level damages.

Design and Development of Anti-Inertia Seats:



The main objective is to nullify inertia acting on a body and to provide better comfort by avoiding motion



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sickness, nausea or dizziness. The system will reduce the inertia acting on the passenger up to an extent and reduce vibration which provides comfort to the passenger in the long run.

Prosthetic Limb:



This product is for obese people to reduce excessive amount of body weight acting on their knees. This acts a supportive add-on to reduce pain and help obese people walk without much strain.

1. Question Paper Counting Machine

To reduce tiring job for teachers of manually counting the number of question papers to be sent to each exam hall, this system counts and separates question papers according to the count.

Blue Book Counting Machine:

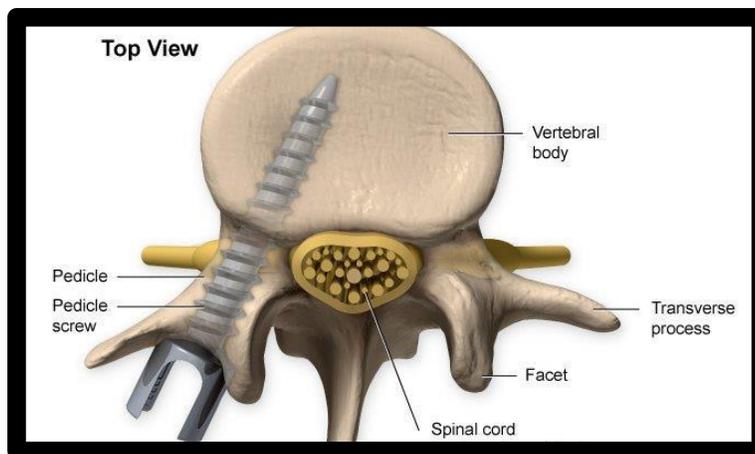
To reduce tiring job for teachers of manually counting the number of Blue Books to be sent to each exam hall, this system counts and separates Blue Book according to the count.

Adjustable Trolley:

This is a system that helps in reducing the burden of carrying blue books, records, data handbooks and other books by placing them on the adjustable trolley which can be adjusted to any size and height according to the requirement. It has a maximum capacity of 400kg.

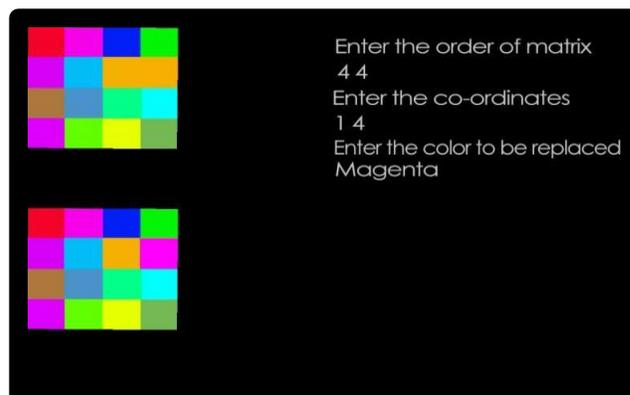


Pedicle Screw Implant:



To automate the pedicle screw implantment in the Lumbar region without puncturing the disc. The project is about to implant a screw with the help of image processing and rack and pinion mechanism.

Pick a Brick:



Enter the order of matrix
4 4
Enter the co-ordinates
1 4
Enter the color to be replaced
Magenta



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Monitoring patients pulse, sweat, temperature and dizziness level to detect early signs of heart attack. And if any mishap might occur there will be a alert message sent to the patience emergency contact/s about the patient's condition and current or recent location of the patient.

Projection of Solids:

SOLIDS

FRUSTUM OF A CONE	PYRAMID	PRISM
Enter the bigger dia <input type="text"/>	Enter Number Of Edges <input type="text"/>	Enter Number Of Edges <input type="text"/>
Enter the smaller dia <input type="text"/>	Enter The Base Length <input type="text"/>	Enter The Base Length <input type="text"/>
Enter the height of Frustum <input type="text"/>	Enter The Height <input type="text"/>	Enter The Height <input type="text"/>
<input type="button" value="SUBMIT"/>	<input type="button" value="SUBMIT"/>	<input type="button" value="SUBMIT"/>

The program generates the necessary outline of shape required for development of cone and prism in the workshop lab based on the input criteria. The students can take a printout and paste it on the sheet metal and can start developing the required development.

Gratitude (Blood Donation Website):



This is web application that helps users to find required blood groups in the user defined locations. And also a automated message will be sent to the registered donor phone number and also email about the requirement of the blood and the receiver details.

2. Achievements of INCUBE Students

- Represented KSCST at IISc open day.
- Represented KSCST best project at NMKRV College on 11th annual conference of KSTA and DST 2019
- Winners of Prerana 2.0 Project exhibition
- Winners of Prerana 2.0 Paper presentation
- Runners up of coding event at state level ISTE students conference.



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- Runners up of MECHANISMO at state level ISTE students conference.
- represented amc in National level motorsports event called Pocket Bike at MVJCE.
- Runners up in National Biomedical Research Poster Presentation AIIMS, Rishikesh
- Secured 6th place in National Biomedical Research Paper Presentation at AIIMS, Rishikesh
- runners up in hackathon at Christ University.
- runners up in state level coding event at IMPULSE organized by OXFORD Engineering College.
- represented amc in national level project presentation event organized by PESIT South campus, IEEE student chapter.
- Presented and published a research paper at International Conference on Recent Advances in Engineering Sciences, at MSRIT College
- Represented amc in project presentation at DrAmbedkar institute of Technology
- represented amc in project presentation at SSIT, Tumkur

Been a part of following Products developed in incubate

- 8 stroke engine
- Crash alert system for two wheelers
- Time table generator
- Prior Heart attack detector
- Electro magnetic stent
- Pocket bike
- P theta instrument
- Anti inertiasatings
- Door step app
- Incube website

Commercialization ready products

- Advanced automated prosthetic limb in association with iisc
- Crash analytics for two wheelers
- Prior heart attack detector
- 8stroke engine

Patents applied

Listofpatents

UtilityPatents		
SINo	Title	ApplicationNumber
1	AnEfficientPedicleProbe	201941002450

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2	A Method and Device for Efficient Probing in Bone Region	201941010607
3	Economical Crossover of Bionic Limb and Prosthetics	201941011020
DESIGN PATENT (FILED)		
4	Motor Sport Frame	315854-001
5	Mini Chopper Bike Chassis	318796-001
DESIGN PATENT GRANTED		
6	Mini Street Bike Chassis (Granted)	318797-001
7	Hybrid Tricycle Frame (Granted)	315854-002

Consultancy Projects designed and developed

- Copper Key - web and app development for event management company
- Lavaru - art gallery e-commerce website
- Aquarelle - 3x automation aid for global MNC industry
- Aspire - a college fest registration portal for Dayanandsagar college

List of Innovations with Geotagged Photos



Principle
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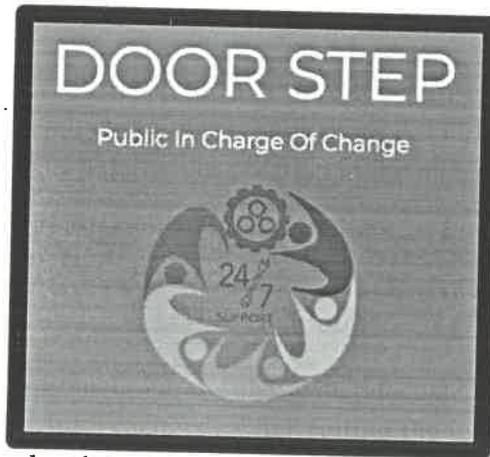
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In a matrix of order specified by the user, there will be blocks of colours generated by the program randomly. During randomness, it happen so that two or more colours will appear consecutively. So if the user wants to change the colour of a particular position in the matrix it can be done by specifying the colour code and the co-ordinates.

Timetable Generator:

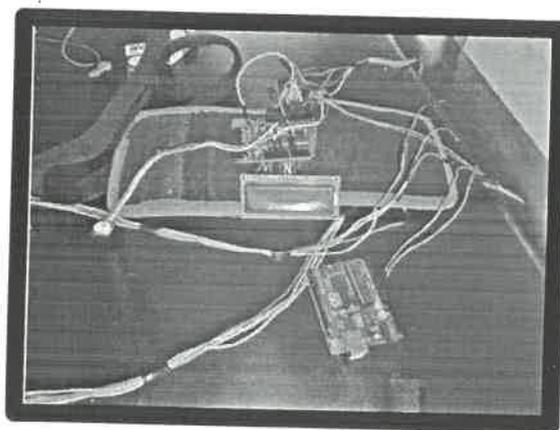
Using the concept of Pick a Brick project, Time Table generator was developed. To generate the Time Table for classes of a semester and for Teachers.. After getting the user input, the program generates a matrix of order number working days in week by number of classes per day with random numbers depending on the number of subjects.

Doorstep(Citizen Services Website):



A mobile responsive website was developed to tackle problems faced by citizens. This website notifies the government about problems coming under the boundaries of Bangalore that includes BESCOM, BWSSB, Pollution Control Board, BDA, Police, Senior Citizen & Child Help, Forest Department and Human Welfare.

Heart Attack Detector:





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- Incube website

Commercialization ready products

- Advanced automated prosthetic limb in association with iisc
- Crash analytics for two wheelers
- Prior heart attack detector
- 8stroke engine

Patents applied

Listofpatents

UtilityPatents		
SINo	Title	ApplicationNumber
1	AnEfficientPedicleProbe	201941002450
2	A Method and Device for Efficient Probing inBoneRegion	201941010607
3	EconomicalCrossoverofBionicLimbandProsthetics	201941011020
DESIGNPATENT(FILED)		
4	MotorSportFrame	315854-001
5	MiniChopperBikeChassis	318796-001
DESIGNPATENTGRANTED		
6	MiniStreetBikeChassis(Granted)	318797-001
7	HybridTricycleFrame(Granted)	315854-002

Consultancy Projects designed and developed

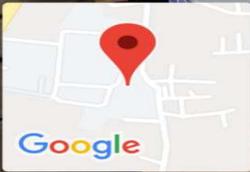
- Copper Key - web and app development for event management company
- Lavaru - art gallery e-commerce website
- Aquarelle - 3x automation aid for global MNC industry
- Aspire - a college fest registration portal for Dayanandsagar college

List of Innovations with Geotagged Photos



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Kalkere, Karnataka, India
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Capstone Project Progress Review

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DEPARTMENT: ISE

PROGRAMME (UG/PG): UG

Initial PROJECT TITLE: The Smart chef

Approved PROJECT TITLE: The Smart chef

PROJECT GUIDE (NAME): Prof. Mithaguru

LEAD STUDENT (NAME): Srinidhi Purohit. M

PROJECT TEAM (MAX OF 4 MEMBERS)

1	<u>Srinidhi Purohit. M</u>	<u>1 A M 1 8 I S 0 6 3</u>
2	<u>Shaman H Shetty</u>	<u>1 A M 1 8 I S 0 5 3</u>
3	<u>Kihan Kumar. B</u>	<u>1 A M 1 8 I S 0 2 7</u>
4	<u>Shreya S Vibhuti</u>	<u>1 A M 1 8 I S 0 5 8</u>

MILESTONES and APPROVALS

SNo	Particulars	Approval by DEPT		Approval by DIR	
		Date	Initials	Date	Initials
1	Project Title and Problem Statement (DTS1)	<u>4/05/22</u>	<u>[Signature]</u>	<u>4/05/22</u>	<u>AH</u>
2	Expected Outcomes of Project (EOPs)	<u>20/06/22</u>	<u>[Signature]</u>	<u>20/6/22</u>	<u>AH</u>
3	Literature Survey	<u>1/06/22</u>	<u>[Signature]</u>	<u>1/6/22</u>	<u>AH</u>
4	Proof of Concept: Working Methodology/ Prototype (DTS2)	<u>12/07/22</u>	<u>[Signature]</u>	<u>12/7/22</u>	<u>AH</u>
5	Technology Readiness Level (TRL), User Testing targets.	<u>2/06/22</u>	<u>[Signature]</u>	<u>2/6/22</u>	<u>AH</u>
6	Comparison of user tested product with EOPs.	<u>4/06/22</u>	<u>[Signature]</u>	<u>4/6/22</u>	<u>AH</u>
7	Minimum Viable Product (MVP) TRL Declarations	<u>8/07/22</u>	<u>[Signature]</u>	<u>8/7/22</u>	<u>AH</u>
8	Results and Analysis	<u>12/07/22</u>	<u>[Signature]</u>	<u>12/7/22</u>	<u>AH</u>
9	No Objection Certificate (NOC)*	<u>12/07/22</u>	<u>[Signature]</u>	<u>12/7/22</u>	<u>AH</u>
10	Final submission of Project Report to VTU	<u>26/07/22</u>	<u>[Signature]</u>	<u>26/7/22</u>	<u>AH</u>

*NOC will be granted by DIR, after submission of all research documents, photos, videos, user database, supplier database, user feedback, POC and adhering to all the terms and conditions.

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Capstone Project Progress Review

MEETING WITH SUPERVISORS

SNo	Date	Work Progress as on date	Remarks by supervisor	Comments by DIR	Initials	
					DEPT	DIR
1	4/05/22	Dataset collection	Completed <i>A.H.</i>		<i>A.H.</i>	<i>A.H.</i>
2	9/05/22	Video data to images	Completed <i>A.H.</i>		<i>A.H.</i>	<i>A.H.</i>
3	19/05/22	SOP's and added more data	Completed <i>A.H.</i>		<i>A.H.</i>	<i>A.H.</i>
4	25/05/22	Data preprocessing	Completed <i>A.H.</i>		<i>A.H.</i>	<i>A.H.</i>
5	1/06/22	Studying about algorithm	Completed <i>A.H.</i>		<i>A.H.</i>	<i>A.H.</i>
6	2/06/22	Discussed about application development	Completed <i>A.H.</i>		<i>A.H.</i>	<i>A.H.</i>
7	24/6/22	Project completed and presentation	Completed <i>A.H.</i>	not shown to DIR	<i>A.H.</i>	<i>A.H.</i>
8	2/7/22	Project implementation	Completed <i>A.H.</i>		<i>A.H.</i>	
9	12/7/22	Final report correction	Completed <i>A.H.</i>		<i>A.H.</i>	
10	12/7/22			implementation not done preliminary poc shown to DIR		<i>A.H.</i>
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Capstone Project Progress Review

MEETING WITH SUPERVISORS

SNo	Date	Work Progress as on date	Remarks by supervisor	Comments by DIR	Initials	
					DEPT	DIR
1	12/11/22	Discussion on topic	change of topic		R	AH
2	13/11/22	Approved project by guide			R	AH
3	13/11/22	Base paper Submitted	discussed series in ml		R	AH
4	13/11/22	Project rejected by DIR	change of project		R	AH
5	14/11/22	New L&T of project Submitted to DIR	change of project		R	AH
6	17/11/22	DIR approved a project	note slides has to be included		R	AH
7	5/12/22	Object labelling using ML	alignment change		R	AH
8	10/12/22	New set of papers Submitted to guide	use can design has to be included		R	AH
9	11/01/22	Project Submitted to guide	copy of proposal		R	AH
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DEPARTMENT: Information science and Engineering

PROGRAMME (UG/PG): BE

Initial PROJECT TITLE: Heart diseases prediction using ML

Approved PROJECT TITLE: Object Recognition using CNN

PROJECT GUIDE (NAME): Mrs. Deepashree N

LEAD STUDENT (NAME): SNEHA T.S

PROJECT TEAM (MAX OF 4 MEMBERS)

1	<u>Prajwal K.G</u>	<u>1 A M 1 8 I S 0 6 6</u>
2	<u>Sneha T.S</u>	<u>1 A M 1 8 I S 0 6 0</u>
3	<u>Prathap Bhudal D.V</u>	<u>1 A M 1 8 I S 0 3 8</u>
4	<u>Chaitra Reddy.N</u>	<u>1 A M 1 8 I S 0 1 8</u>

MILESTONES and APPROVALS

SNo	Particulars	Approval by DEPT		Approval by DIR	
		Date	Initials	Date	Initials
1	Project Title and Problem Statement (DTS1)	<u>12/1/22</u>	<u>[Signature]</u>	<u>12/1/22</u>	<u>AH</u>
2	Expected Outcomes of Project (EOPs)	<u>24/1/22</u>	<u>[Signature]</u>	<u>24/1/22</u>	<u>AH</u>
3	Literature Survey	<u>24/1/22</u>	<u>[Signature]</u>	<u>24/1/22</u>	<u>AH</u>
4	Proof of Concept: Working Methodology/ Prototype (DTS2)	<u>4/3/22</u>	<u>[Signature]</u>	<u>4/3/22</u>	<u>AH</u>
5	Technology Readiness Level (TRL), User Testing targets.	<u>9/5/22</u>	<u>[Signature]</u>	<u>9/5/22</u>	<u>AH</u>
6	Comparison of user tested product with EOPs.	<u>9/5/22</u>	<u>[Signature]</u>	<u>9/5/22</u>	<u>AH</u>
7	Minimum Viable Product (MVP) TRL Declarations				
8	Results and Analysis	<u>9/5/22</u>		<u>9/5/22</u>	<u>AH</u>
9	No Objection Certificate (NOC)*				
10	Final submission of Project Report to VTU				

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Capstone Project Progress Review

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DEPARTMENT: Information Science and Engineering

PROGRAMME (UG/PG): Bachelor of Engineering (UG)

Initial PROJECT TITLE: Customer Satisfaction Recognition Through Emotions

Approved PROJECT TITLE: Customer Satisfaction Recognition Through Emotions

PROJECT GUIDE (NAME): Dr. Rajesh E

LEAD STUDENT (NAME): Syed Yaseen

PROJECT TEAM (MAX OF 4 MEMBERS)

1	Syed Yaseen	1	A	M	1	8	I	S	0	6	6
2	Syeda Fatin Fathima	1	A	M	1	8	I	S	0	6	7
3	Afraa Parveen A	1	A	M	1	8	I	S	0	0	4
4	Zain Ul Abdin Khan	1	A	M	1	8	I	S	0	7	8

MILESTONES and APPROVALS

SNo	Particulars	Approval by DEPT		Approval by DIR	
		Date	Initials	Date	Initials
1	Project Title and Problem Statement (DTS1)	12/1/22	Y	12/1/22	AH
2	Expected Outcomes of Project (EOPs)	24/1/22	Y	24/1/22	AH
3	Literature Survey	4/3/22	Y	4/3/22	AH
4	Proof of Concept: Working Methodology/ Prototype (DTS2)	9/5/22	Y	9/5/22	AH
5	Technology Readiness Level (TRL), User Testing targets.	9/5/22	Y	9/5/22	

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6	Comparison of user tested product with EOPs.	9/5/22	9/5/22
7	Minimum Viable Product (MVP) TRL Declarations	12/5/22	12/5/22
8	Results and Analysis	28/6/22	28/6/22
9	No Objection Certificate (NOC)*		
10	Final submission of Project Report to VTU		

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MEETING WITH SUPERVISORS

SNo	Date	Work Progress as on date	Remarks by supervisor	Comments by DIR	Initials	
					DEPT	DIR
1	12/1/22	Discussion on Topic	Tasks was divided among team members	Get ideas for project	Big	AH
2	24/1/22	Activities given for research on topic	Implementation of advanced technology	Analysis on topic	Big	AH
3	4/3/22	Identified problem & reported	work on mixed expression analysis	Get the solution for problem statement	Big	AH
4	9/5/22	Presented customer viewpoint survey	side angle to be tackled	implement code on real-world applications	Big	AH
5	12/5/22	prepared about the python code	work on accuracy	get me fibonacci + pyram code	Big	AH
6	24/6/22	working on projects accuracy	work on real time footage.	asked us to try on CCTV footage	Big	AH
7	2/7/22			basic emotion detection code implemented	Big	AH
8				real time implementation??		
9						
10						
11						



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Capstone Project Progress Review

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DEPARTMENT: INFORMATION SCIENCE & ENGINEERING

PROGRAMME (UG/PG): B.E

Initial PROJECT TITLE: A Deep Learning approach for Plant Disease Prediction

Approved PROJECT TITLE: Travel guide using Android Application

PROJECT GUIDE (NAME): Dr. M. Sathya

LEAD STUDENT (NAME): SHIVA PRASAD . N

PROJECT TEAM (MAX OF 4 MEMBERS)

1	AKSHAY . R	1 A M 1 8 I S 0 0 8
2	PRASHANTH . M	1 A M 1 8 I S 0 3 7
3	SANJEEV . J	1 A M 1 8 I S 0 4 9
4	SHIVA PRASAD . N	1 A M 1 8 I S 0 5 7

MILESTONES and APPROVALS

SNo	Particulars	Approval by DEPT		Approval by DIR	
		Date	Initials	Date	Initials
1	Project Title and Problem Statement (DTS1)	12/1/22	AH	12/1/22	AH
2	Expected Outcomes of Project (EOPs)	24/1/22	AH	24/1/22	AH
3	Literature Survey	24/1/22	AH	24/1/22	AH
4	Proof of Concept: Working Methodology/ Prototype (DTS2)	4/3/22	AH	4/3/22	AH
5	Technology Readiness Level (TRL), User Testing targets.	9/5/22	AH	9/5/22	AH
6	Comparison of user tested product with EOPs.	9/5/22	AH	9/5/22	AH
7	Minimum Viable Product (MVP) TRL Declarations				
8	Results and Analysis	9/5/22	AH	9/5/22	AH
9	No Objection Certificate (NOC)*				
10	Final submission of Project Report to VTU				

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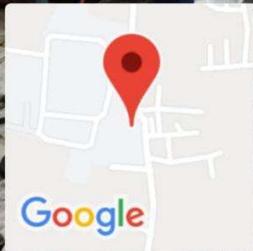

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 Capstone Project Progress Review
 MEETING WITH SUPERVISORS

SNo	Date	Work Progress as on date	Remarks by supervisor	Comments by DIR	Initials	
					DEPT	DIR
1	07/11/21	Discussing the topic	Project title discuss		#	AH
2	10/11/21	Approved project from Guide	equipment not satisfied		#	AH
3	11/11/21	Base paper and Survey papers submit	Cost shared		#	AH
4	12/11/21	Project initiated	Dir team identified already.		#	AH
5	12/11/21	Project rejected by DIR	Dir team & my rejected		#	AH
6	13/11/21	New List of project submitted to DIR	Discuss new problem		#	AH
7	17/11/21	DIR approved a project	new problem assigned by DIR		#	AH
8	28/4/22	Smart Travel guide approved by DIR	Collecting & equipping		#	AH
9	10/5/22	New set of papers submitted to Guide	Study algorithm need to be done		#	AH
10	28/5/22	Project front-end submitted to Guide	Case study done		#	AH
11	13/6/22	Back-end submitted to Guide	test Case Analysis		#	AH
12	11/07/22	Project submitted to Guide & DIR	Module working.		#	AH
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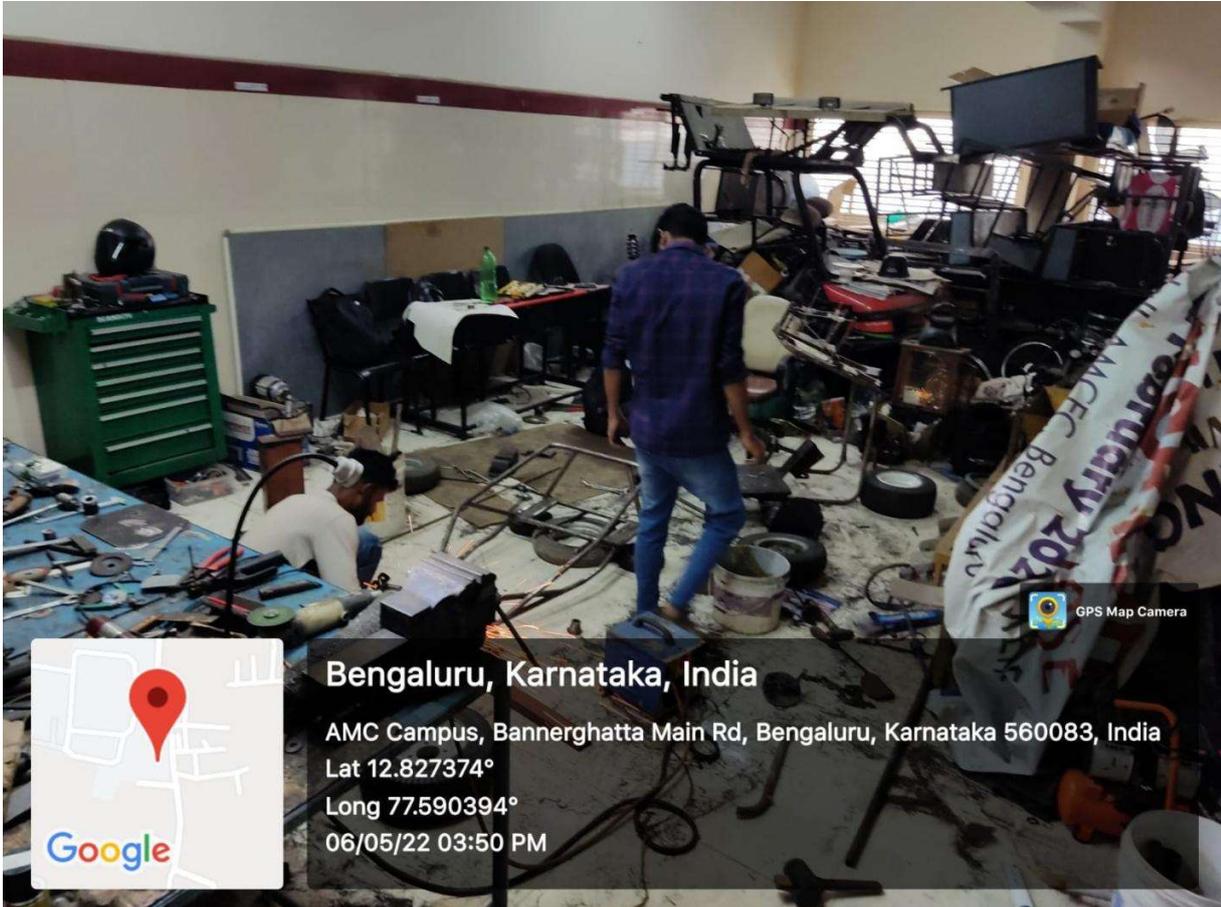


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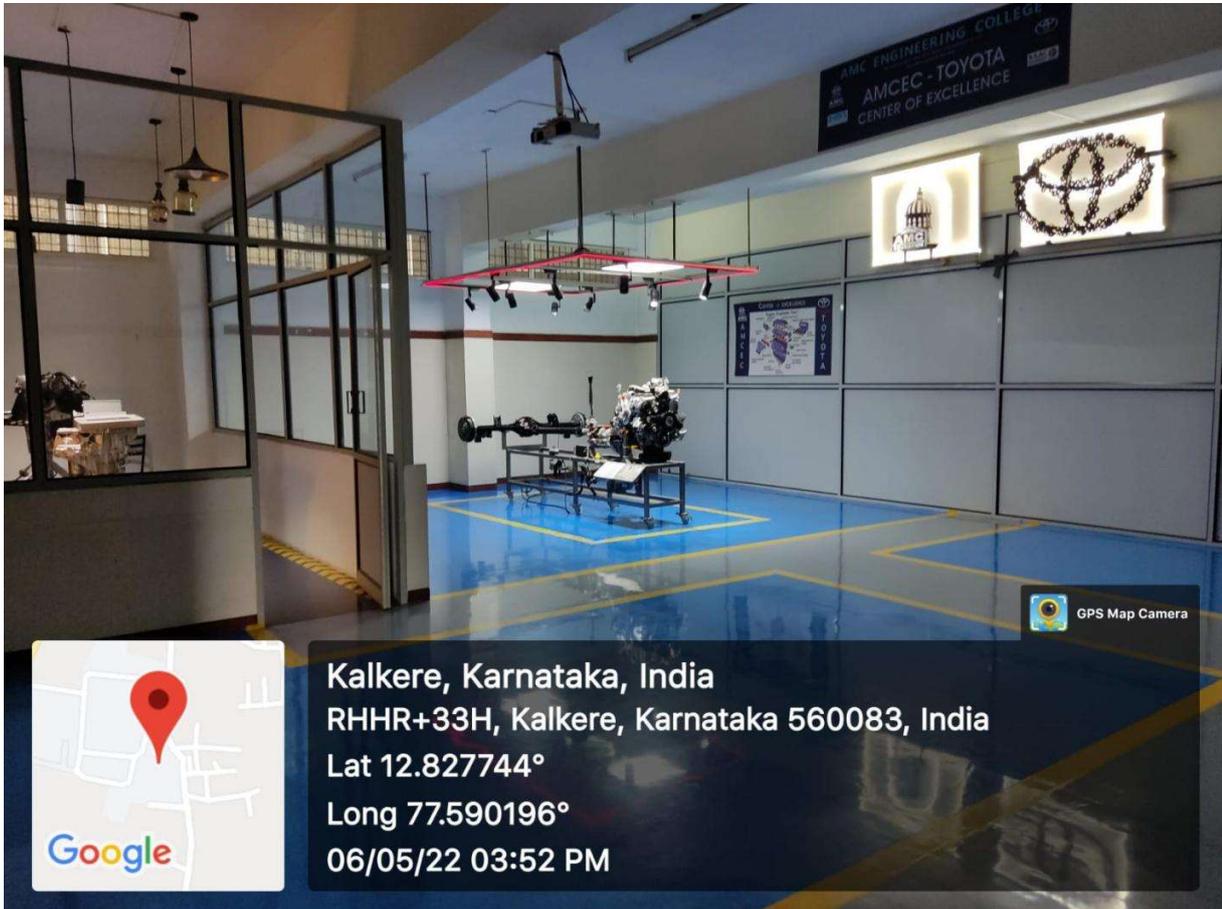


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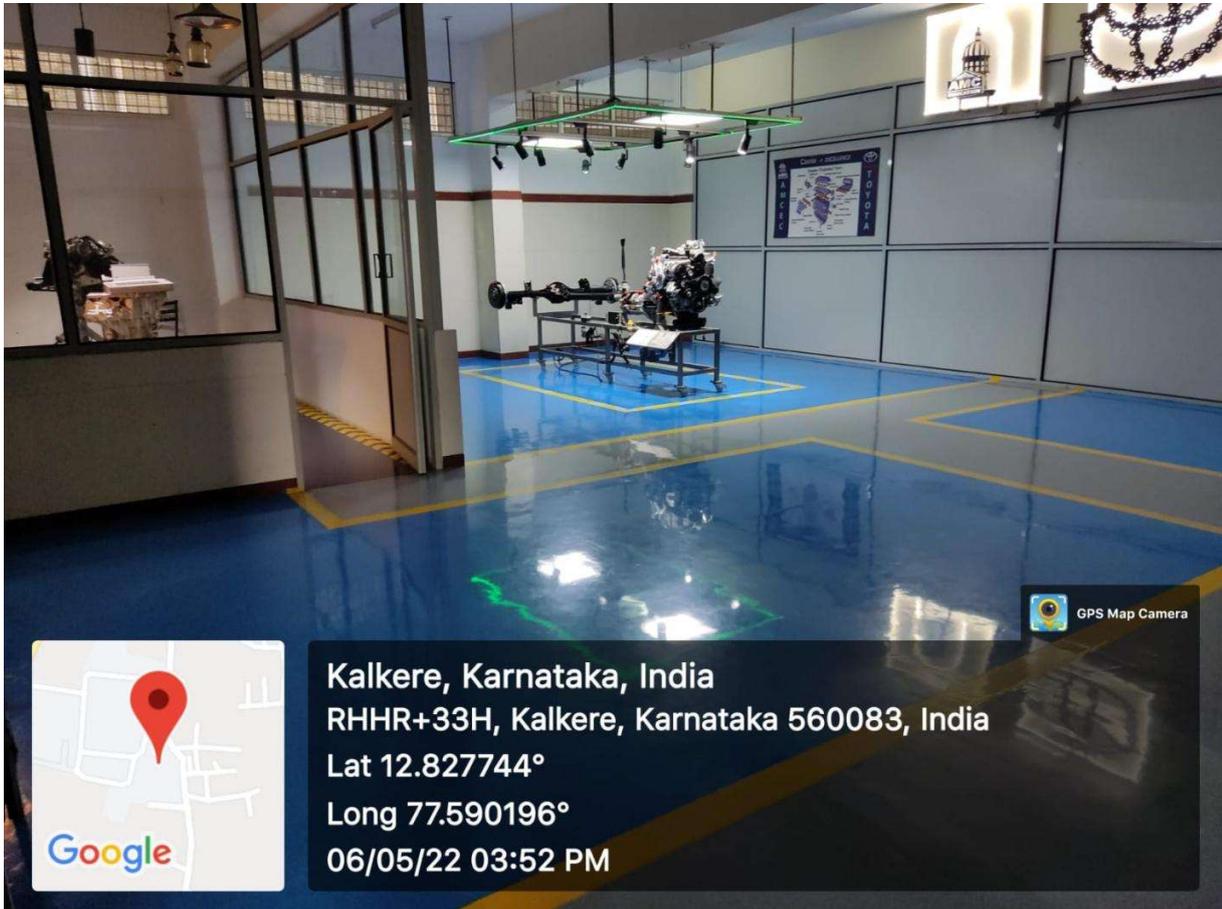
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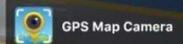


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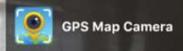


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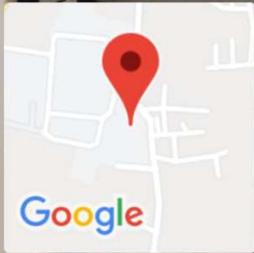
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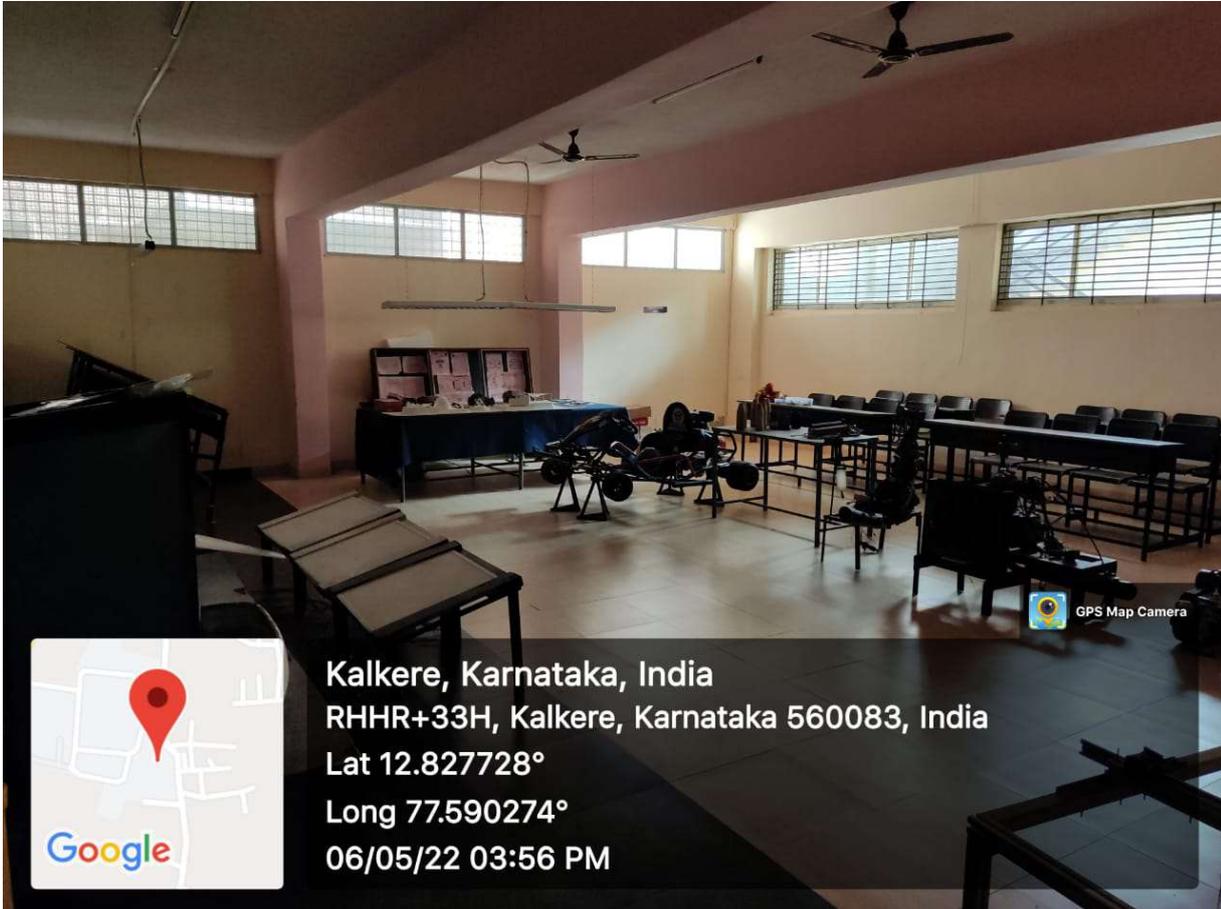


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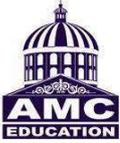
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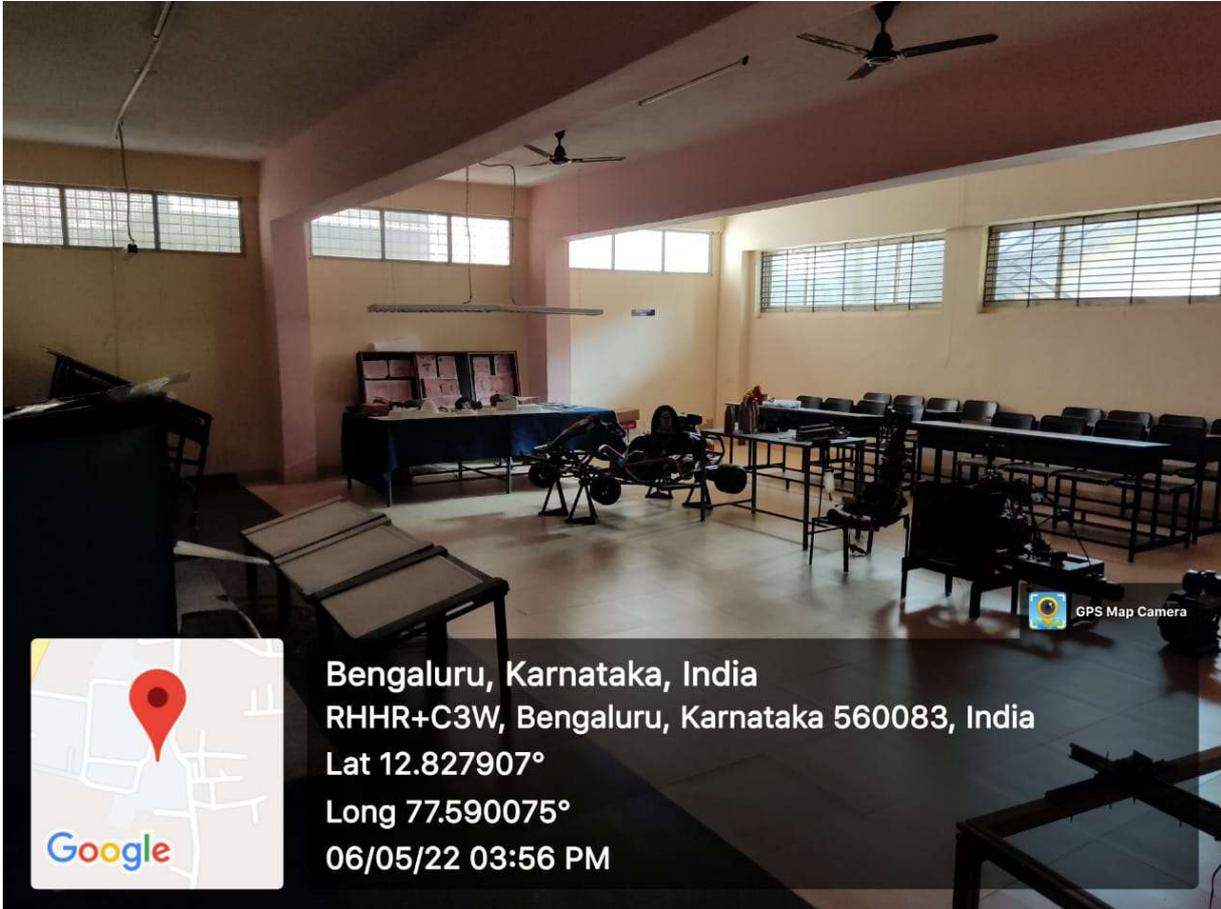
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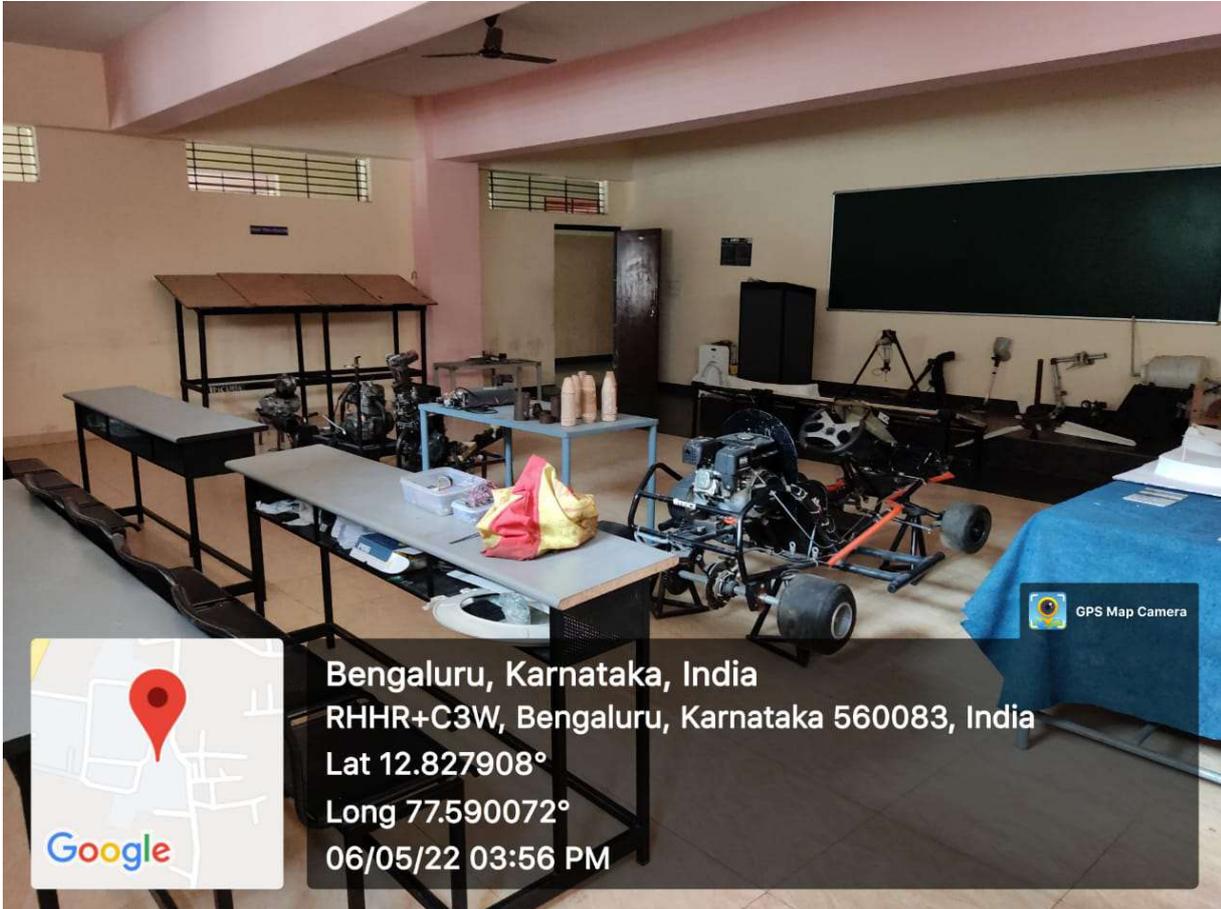


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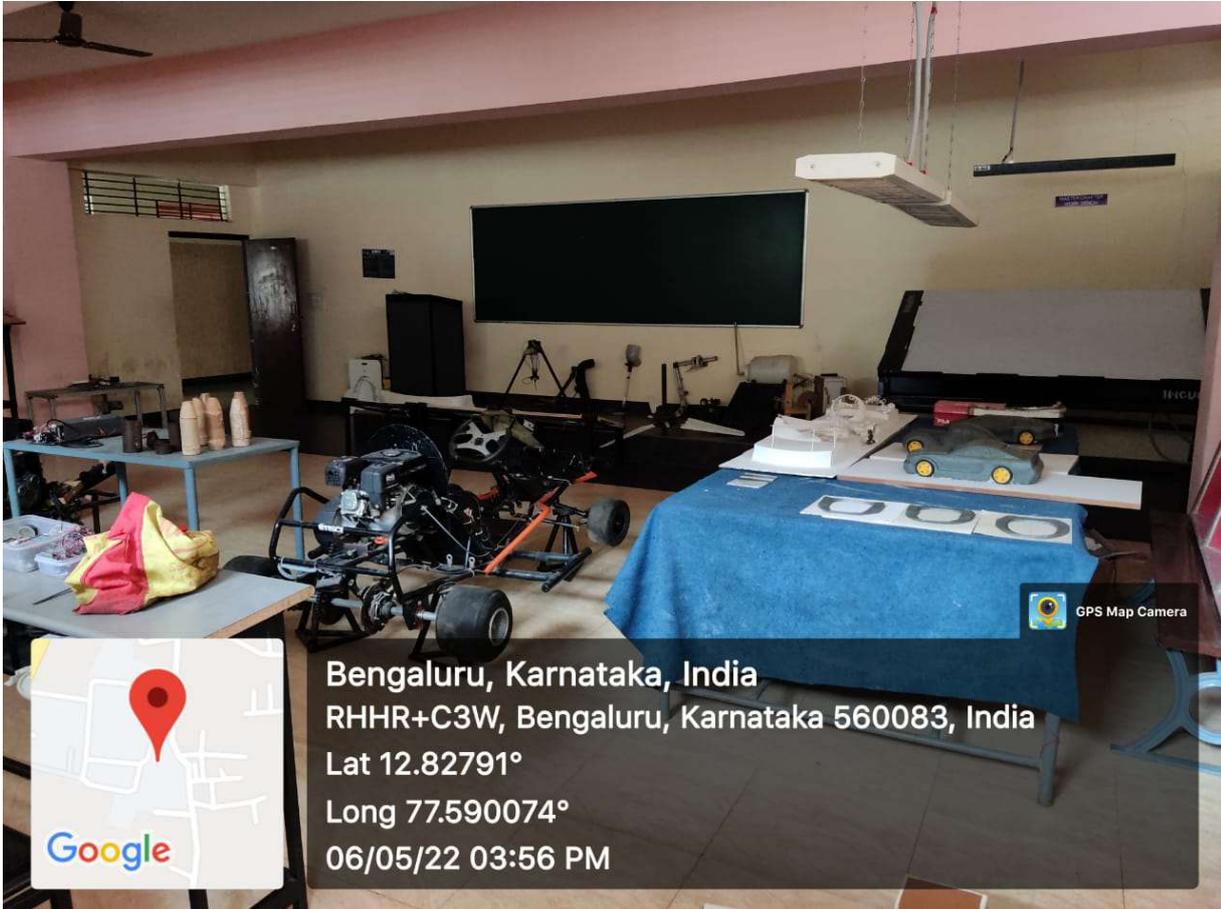
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