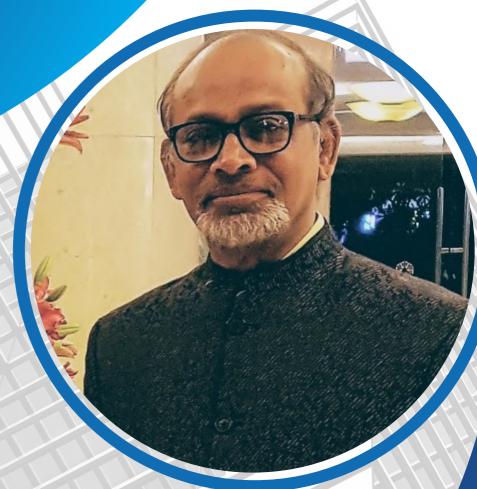
Celebrating the Generosity of



# Dr. Parasuram Balasubramanian

Impact of your Giving in 2023



Indian Institute of Technology Madras Office of Alumni and Corporate Relations

# **Director's Message**



Prof. Kamakoti Veezhinathan Director, IITM

#### Greetings!

IIT Madras continues to retain her top position for the eighth consecutive year, in the National Institute Ranking Framework, thanks to the world-class research of its faculty and students. The contribution and support of *Alumni and well-wishers like you* has crucially helped this standing and stature. Our achievements in research, education, innovation and entrepreneurship have also earned us the recognition of an 'Institute of Eminence' as well as the top position in the Atal Innovation Ranking from the Government of India.

The institute is making an indelible mark with her 'research with impact' in several areas including quantum computing, drinking water technology, industrially relevant mathematical models for governance, rendering cancer-cure more effective. Our centres of excellence, the Center for Innovation, Nirmaan – the pre-incubator, the Incubation Cell, technology centres such as 'IITM-Pravartak' and others, work in unison for not just our nation's building, but societies world-wide. We aspire to be locally impactful and globally relevant through all these efforts.

Towards exploring new research frontiers, a Department of Medical Sciences and Technology has been launched to conjoin medicine and engineering. Similarly, a School of Sustainability is on the horizon to research sustainable practices in the Global South. The campus is moving towards 'carbon-net-zero' goal through water conservation by 100% recycling, efficient garbage disposal, and electrification of vehicles. The traditional education system is undergoing a paradigm shift, with our online Bachelor of Science programme in Data Sciences and the National Program of Technology Enhanced Learning, that have won Gold in the 'Lifelong Learning' category and Silver in the 'Best Online Program' category of the Wharton-QS Reimagine Education Awards 2022 respectively. IIT Madras is leading this revolution from the front.

Such achievements are not possible without the deep-rooted faith and support of alumni and well-wishers such as yourself. We are indebted to you for your generous, bountiful, and impactful contributions. On behalf of IIT Madras, I offer you our deepest gratitude for continuing to strengthen the Institute. Together with your support, we are confident of building an IIT Madras that is more inclusive, diverse, and enabled by an ecosystem to be nationally relevant and globally recognised. Thank you!

# **Dean's Message**



Prof. Mahesh Panchagnula

Dean, Alumni & Corporate Relations, IITM

Dear Dr. Parasuram Balasubramanian.

I express my heartfelt gratitude to you for your generous support to IIT Madras. We appreciate your passion in supporting the causes you do and I assure you that your contributions will be optimally utilized. This report has been compiled to convey how your largesse has touched lives and made a difference at IIT Madras. In keeping with the rapid, contemporary strides in science, technology we have set ambitious goals for ourselves - your continued enthusiasm and support will help us greatly in these endeavors.

IIT Madras is far more diverse in its set of pursuits, more green and more research-focused. And yet, it remains unchanged over these years, it is still the best Institute in the country, and attracts the best students that India has to offer to come and make a mark. I also cordially invite you to visit your campus to see for yourself, the impact of your contribution, and the growth and transformation the Institute has undergone over the years.

We can never express our gratitude enough for all that you have done - Thank You!

# "GIVING IS NOT JUST ABOUT MAKING A DONATION -IT'S ABOUT

**MAKING A DIFFERENCE**"





# **Dr. Parasuram Balasubramanian**

[1971/BT/AE] & [1973/MT/IM]

Dr. Parasuram Balasubramanian is the chief executive officer of Theme Work Analytics, a large company in the information technology sector that was founded in 2005. He serves as a mentor and counsellor to start-up businesses, helping them navigate the product-market potential gap. In his fourdecade career, he has held positions such as consultant, group leader, CIO, CEO, and profit centre head in the information technology sector. He graduated from IIT Madras with degrees in Engineering and Management, and in 1977, he earned a Doctorate in Industrial Engineering with a focus in Operations Research. He received awards from Purdue University in March 2001 for Outstanding Industrial Engineering Alumnus, Infosys Technologies Limited in 2002 for Fellow, and the Indian Institute of Materials Management in 2005 for Honorary Fellow.

# **Your Stellar Journey**



2022- Present

2004- Present Founding Governing Officer



HITEK

Technical

1995 - 2004

Chief Executive

Member of the **Board** 



PURDUE

1973-1977

1986-1989

Director/ CE Chief Executive Officer

1989 - 1994 Senior Vice President

1966-1971

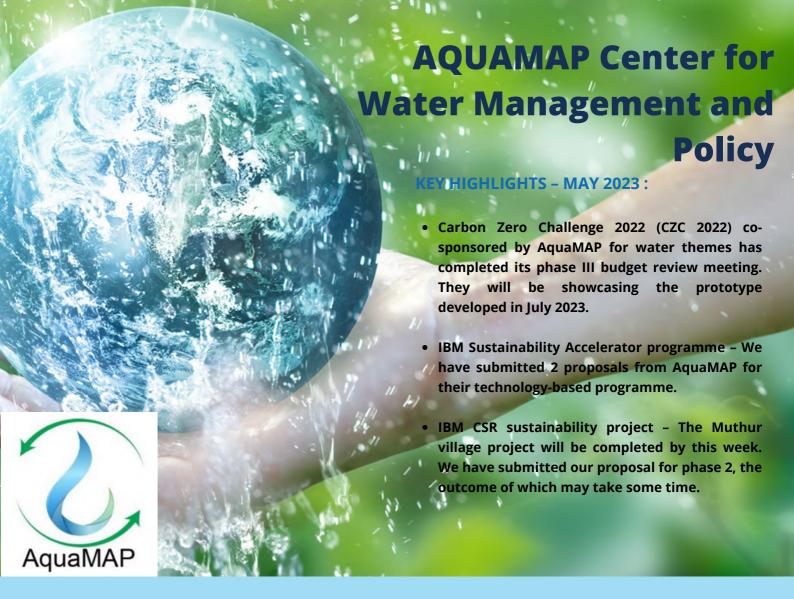
B. Tech in Aeronautical Engineering

1971-1973

M. Tech in Industrial Management

# **Causes supported**





#### 1. Progress on Hydro-Informatics lab:

Server and all the other equipment have been installed. We are awaiting the quotes for the cloud service plans.

#### 2. Progress on Grand Challenges:

- **Grand Challenge Initiative 1:** Of the total 5 teams. phase 3 budgets have been released to 3 teams after their evaluation. 2 teams are being closely monitored on their progress for release of the same.
- **Grand Challenge Initiative 2:** AquaMAP acts as a technology partner for Reviving River Noyyal, along with several other organizations. Advised setting up the SOP for executing the wastewater treatment which consists of establishing a master plan, installation of a monitoring system, lab analysis of baseline data and available data, and critical parameters for monitoring in relevance to Achan Kulam. A couple of field visits were carried out to identify suitable locations for Real-time Monitoring Station (RTMS) and the STP's. Stakeholder meetings are on to review the progress and discuss the way forward.

#### 3. Project Proposals granted by AquaMAP:

Four projects have been approved and a sub-project number has been allotted by ICSR. Updates of all four projects are detailed below:



# Project Title: Water and soil analysis: Creation of a digital twin of the village for environmental management

Project No : SB21-22/1879/CY-DONO/002505

Name of Investigators : Prof: T. Pradeep, Department of Chemistry, IIT M Location of Implementation : Nallampatti Panchayat, Erode District, Tamil Nadu.

Time Duration : 22 March 2022 to 22 March 2025

• The team has fitted the depth sensor at the open well and data is being uploaded to our dashboard showing the depth of water above the sensor in feet in real-time (every 10 mins). The data is being analysed.

- Ward-wise analysis and correlations and mapping of water bodies, their usage and quality with farming, and health data are in progress.
- Water quality data at 31 locations is being mapped spatially along with all other data collected to look for correlations with farming practice and health.
- Chemical analysis of selected water samples collected this year for the presence of six heavy metals (As, Pb, Ni, Cd, Mn, Cr) is in progress to assess contamination.
- Water sampling will be conducted at 42 locations in the village including drinking water, overhead tanks, and irrigation water sources, with a uniform spread across all wards to assess seasonal changes.
- A new research associate, Parthasarathy, has joined ICCW and will be based in Coimbatore to assist in data collection, water/soil sampling and analysis and microbiota analysis, and sensor maintenance.
- A more localized and detailed collection and analysis focusing on a few wards which show strong indications of correlations between water/soil contamination, farming, and health will be carried out in the village.
- A blood camp will take place in which medical assessment and blood samples of the population will be taken to assess exposure to contaminants.
- A website for the project and dashboards (https://www.nallampatti.world) has been set up and will be released soon. We are working on improving the appearance, interactivity of the current dashboard and integrating all the data we have collected so far. ICCW has shared the progress report and a proposal for phase 2 of their project which is under review by our team.

02

#### Project Title: Automatic control of rural water supply schemes

Project No : SB21-22/1878/CH-DONO/008328

Name of Investigators : Prof. Sridharakumar Narasimhan (Chem Eng.), RuTAG, IIT M

Location of Implementation : Padur and Paandeswaram in Tiruvallur district

Time Duration : 22 March 2022 to 22 March 2025

**Project Status:** As part of the recently funded project, pumps, Overhead Tanks, and supply and delivery lines in identified villages will be equipped with required sensors and micro-controller-based sensor interface units /pump control panels with wireless connectivity for monitoring supply. Application software with a dashboard to monitor the levels in tanks and remote control of pumps with an online database provided will be made available. A pump control panel for monitoring energy consumption of pumps and to protect the pump from overcurrent or dry runs has been designed and will be delivered. Gateways and dashboard software have been procured and are being configured.

They are reworking on the sensors which are under testing, after which the pump control panels would be connected to the sensors.



# Project Title: Improvement in Water, Wastewater and Solid waste for a clean and healthy village

Project No : SB21-22/1877/CE-DONO/005036

Name of Investigators : Prof. Ligy Philip & Prof. B. S. Murty- Dept of Civil Engineering, IITM Location of Implementation : Vallipuram, next to River Palar; District: Chengalpattu; Tamil Nadu

Time Duration : 22 March 2022 to 22 March 2025

Project Status: Post the site visit, the PIs donated 3 tricycles, and cleaning equipment to the Panchayat to facilitate waste collection as a part of the project initiative. They have initiated the process for systematic solid waste collection, segregation, and disposal in order to prevent further degradation of water sources. The team has been proactively pursuing to get major CSR funding for the implementation of developmental work, to be proposed by the project implementation team. Societal Impact Action Group (SIAG) IITM Alumni team has expressed interest to support educational initiatives. The donation of 120 bicycles by IIT Madras to government high school students was found to be very beneficial to the students. On following up with the school's headmaster, we got to know that the majority of the boys were coming to school with these bicycles and only a few girls were using the bicycles. We will be identifying the reasons for the limited use of bicycles by the girls. With the success of the bicycle donation, we have once again delivered 120 bicycles to the village panchayat. The bicycle distribution event will take place once the school re-opens. They will be mainly for the community students and other members who need the bicycles. The Panchayat Library is being well-utilized post the donation of computers, printers, and an LED TV, which have been donated by Alumni. A summer vacation camp was held for school children where a computer training module on 'Basics of Computers' was imparted. The camp also undertook an awareness programme on the 'Role of children in saving water at home'. Both the activities were taken well by the children and were successful.

JIO internet facilities for Vallipuram village – To support Vallipuram Village development by setting up a Reliance internet facility as part of IITM's collaboration with JIO, we connected with the concerned. We have shared the details on the existing network presence at Vallipuram. Following up on their plan to provide connectivity as requested.

04

## Project Title: Sustainable Water Management in Panchayats of Vellore District

Name of Investigators : Prof. Ligy Philip & Prof. B. S. Murty

Department of Civil Engineering, IITM

Location of Implementation: Thuthipet Lake and Panchayats of Penathur, Thuthipet,

and Adukamparai; Vellore District, Tamil Nadu

**Project Status:** AquaMAP team conducted a Preliminary survey following GPS survey and sample collection. A second site visit was carried out to perform the flow test in the inflow channels of the lakes and to identify the land availability for the treatment system. The team collected the information regarding lake boundary, their inflow and outflow details, inflow source, flow quantity, and other details with respect to the two lakes - Thuthipet and Sapthalipuram. The major flow to the lake was identified from the Vellore Medical College Hospital. AquaMAP has prepared a proposal and shared it with Dr. Chandy for CSR funding.

Further, AquaMAP team along with the Professors undertook a site visit to identify land for the construction of wastewater treatment systems and STP and also plan the execution of the project.

#### 4. Progress on Third Party Proposals:

The following project proposals are in progress through CSR funding from Industry partners, Academic Institutions, and Government agencies.

#### **INITIAL PROPOSAL PHASE:**

- **IBM** -Phase II -Clean Village Transformation Project –at Sidlaghatta Taluk, Karnataka. Lead investigators are Prof.Ligy Philip and Prof. B S Murty
- Vellore project -Waste water management led by Prof.Ligy Philip and Prof. B S Murty
- HCL foundation: Thoothukudi -(Water Resource Management) Led by Prof.Ligy Philip and Prof. B S Murty
- IISc-Domain Expertise Cell (DEC) in BBMP, Karnataka
- **Vellakinar Pilot initiative** -low cost sewage treatment solutions by Prof. Mathavakumar and Siruthuli (NGO)

#### PROJECT ONGOING-THIRD PARTY FUNDING:

• **IBMClean Village Transformation Project** –at Sidlaghatta Taluk, Karnataka. Lead investigators are Prof.Ligy Philip and Prof. B S Murty ( Project value -INR 70 lakhs )

#### 5. Progress on Engagement with IITM Alumni:

Connected with 8 alumni. They have agreed to facilitate with funding partners or corporates. We have shared an AquaMAP concept note and a feedback form to enable them identify topics of contributions. Will communicate with the other alumni to do the same to finally size down to the serious and sustained contributors based on their strengths and time availability.

#### 6. Others:

Hiring of management interns - To scale up developmental activities, we are in the process of sourcing resumes to hire interns from some of the leading management colleges in Chennai. The selection and recruitment process will be conducted soon.

#### 7. KEY ACTION PLAN - JULY 2023

- **CZC 2022** The participants will be showcasing the prototypes developed in July 2023, for which a 3-day event is being planned.
- **Setting up of Hydro- Informatics Laboratory** and collation of database to be fed into the system.
- **IBM** To monitor and ensure timely completion of field level activities and handover the assets to the village authorities, thus closing phase 1 of the project.
- **IBM** sustainability accelerator programme Follow up and initiate work on 2 proposals submitted from AquaMAP.
- **HCLF** Proposal for DPR is ready. We are awaiting HCLF to provide us with a NOC from PWD department for preparing the DPR. It is taking time as the government officials are involved. For the smaller oorni water management project, they have sought the internal approval at their end. They will be releasing a PO soon, post which the project can start being implemented.

#### 8. PHOTO GALLERY:

# a.Follow-up of activities at Vallipuram -Clean and Healthy Village Development Programme:

A summer vacation camp was conducted at Vallipuram Panchayat Library for the school children. The topic covered in the camp was 'Basics of computers' and the materials were provided by IIT Madras. The session lasted for 90 minutes. The session is was conducted in two parts: one theory session and the other was a practical session. There were about 19 high school students who enrolled and eagerly participated in the camp. The majority of rural school going students lack the basics of computer skills.







#### b. Awareness Programme on the role of children in 'Saving Water at Home'

An awareness programme was held at Vallipuram Village as part of the summer holiday camp for government high school students. There were about 24 students who enrolled for the programme. The main objective of the programme was to create awareness amongst school students on various methods to save water at home. The teaching method adopted for the awareness programme was through group interactions. During the session, all the students were asked to write about their ideas on how to save water at home, have group discussions and

all the students were asked to write about their ideas on how to save water at home, have group discussions and then present it to the group. The session was facilitated by the school teacher, who gave inputs on all the possible ways to save water at home.

Finally, a pledge was taken by all the participants to save water at home.





BACK∢

# Young Faculty Recognition Award

The Indian Institute of Technology Madras is known both nationally and internationally for excellence in technical education, basic and applied research, innovation, entrepreneurship, and industrial consultancy.

The young Faculty Recognition Award was instituted in the year 2010. The award consists of a Cash award Rs. 50,000/-and certificate to outstanding young faculty members to acknowledge and felicitate their achievements in their respective academic and pedagogic fields on Teachers Day.



### Awardee for the year 2022

Dr. Alagappan Ponnalagu

**Civil Engineering** 

Dr. Phanisri
Pradeep Pratapa

Civil Engineering

Dr. Arun <u>Rajku</u>mar

Computer Science & Engineering Dr. Babji Srinivasan

Applied Mechanics

# Voice of the Awardees:



**Dr. Alagappan Ponnalagu** Dept. of Civil Engineering

"I want to thank Dr. P. Balasubramanian and Dr. P. Manohar Anand for sponsoring this award which recognizes faculty for their contribution to teaching and research. This award will serve as an impetus to improve my teaching and research further."

"YFRA provides a positive nudge to young faculty like me by giving a sense of support and confidence to keep doing what we were doing, and that we are on the right path. I sincerely thank the donors Dr. P. Balasubramanian and Dr. P. Manohar Anand for instituting such an award that encourages young minds to excel in their academic careers."



**Dr. Phanisri Pradeep Pratapa**Dept. of Civil Engineering



**Dr. Arun Rajkumar**Dept. of Computer Science Engineering

"I am honoured to be receiving this award and grateful to Dr. Balasubramanian and Dr. P. Manohar Anand for Instituting the same. I thank the director and the YFRA award committee for following a rigorous process to select the awardees. Such awards definitely provide a push to do even better in teaching and research."

"I whole -heartedly thank the IIT alumnus for creating such a wonderful recognition award to young faculties. This recognition really provides mental support and acts as a booster to achieve more in my career."



**Dr. Babji Srinivasan**Dept. of Applied Mechanics



# Prof. M. S. Ananth Endowment

Prof. M. S. Ananth Endowment Fund at the IIT Madras is the fund established to honor Prof. M. S. Ananth, who served as the Director of IIT Madras from 2001 to 2011. He was well-known for his contributions to science and teaching, as well as his tireless efforts to develop higher education and research in India. The alumni and well-wishers have contributed towards this endowment.

The interest accrued from this endowment is used to support the following activities:

- 1. Socially Relevant Projects
- 2.To support the educational needs of the children of staff members of self-help organizations who work on IITM campus.

## **1. Socially Relevant Projects:**

IIT Madras has been in the forefront of developing technologies to solve pressing problems in society. It showcases cutting-edge research on technologies for social impact. Total number of Projects – 22

#### **Highlights of some projects:**



**Prof. Nikhil Bugalia Dept of Civil Engineering** 

**Project Name: Construction** and Demolition (C&D) Waste Management and the Role of the Informal Unorganized Sector in India: Case of New Delhi

Objective of the project: Identifying early-stage demolition projects different parts of the City and various stakeholders involved in the identified projects to understand their roles in an informal/formal C&D waste management system through interviews.



Prof. Madhu Mutyam

**Dept of Computer** Science and Engineering

Project Name: Tracking Beehive Health Using IoT Technology

The objective of the work is build an IoT-based tracking system to monitor the health of a beehive.



**Prof. Sreeram K. Kalpathy** 

Dept of Metallurgical and **Materials Engineering** 

Project Name: Farmerfriendly, point-of-use, portable heavy interface: A new technical kit aid for the sector.

Objective of the project: Analysing water quality and This project is aimed at a heavy metal presence in community screening of water samples collected cervical cancer in Kasimedu from several temple tanks in fisherwomen Rameswaram, Tamil Nadu detection of an HR-HPV in using ICP-OES facility at these women by using an SAIF- IIT Madras.



**Prof. Rayala Suresh Kumar** 

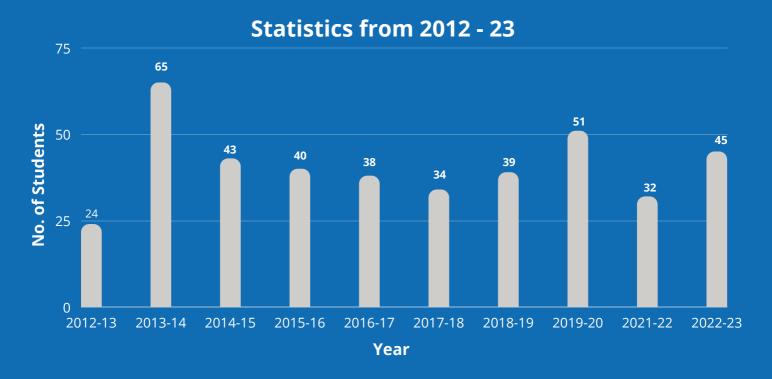
Dept of Biotechnology

Project Name: Community Screening "Kasimedu of metal fisherwomen" for cervical sensors with cell phone cancer using a self-sampling and an indigenous agricultural innovative detection device.

indigenous detection device (developed at IITM).

## 2. To support the children of staff members:

Over the years the funds have been disbursed among students. The below graph depicts the number of students who have reaped the benefits.



In 2022, 45 children of the IIT Madras campus Self-Help group staff have been given support to their tuition fee through this scheme



Respected Mam/siv,

I am S. madesh Son of

Krasthurin Thank you for Sponsaring my

Education fees you have been a source

of Constant Support and impiration

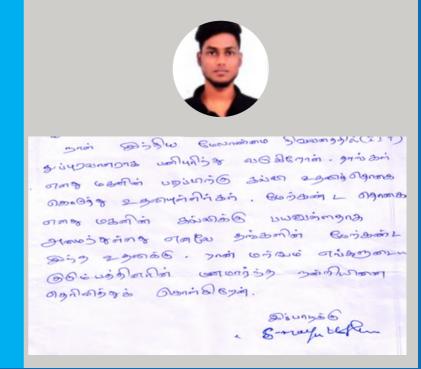
for me I am grateful and humble and

realize the amount of fees dedication,

I will Study Perfactly and well.

Thank you Mam/Sir

S. madesh.



To read more feedback



For the detailed report please





The fund collected by 1971 Batch Golden Reunion utilized for Merit Cum Means Scholarship.

YEAR	NAME	Roll No	DEPARTMENT	CGPA
2017-20	OM SHRI PRASATH	EE17B113	Dual Degree, Electrical Engineering	8 - 9
2021	MUKESH. S. K	NA21B047	B.Tech Naval Architecture and Ocean Engineering	7 - 8

#### Voice of the beneficiary:



**OM SHRI PRASATH**Past Beneficiary

I feel really happy and honored to receive the 1971 Batch Merit Cum Means Scholarship. I would like to thank you for the faith you have continued to bestow upon me in providing withthis scholarship. As a result of your motivation, I was able to get selected for the INTER IIT CHESS CONTINGENT for the INTER IIT CHESS MEET which is going to happen in Guhawati in December. I would like to once again profoundly thank you for continued support, and I am sure that I would be able to repay your faith in me

**MUKESH. S. K**Present Beneficiary

"I thank you for initiating my scholarship. It will be very useful for my academics needs. Your contribution to the Merit-Cum Means Scholarship is generous and it will allow me to focus on my studies. I thank the Donors for giving me this scholarship".



# **Prof. A. Ravindran Prize**

Criteria: This award is instituted in the year 2015. Awards consist of a silver medal of 2" dia and a cash award of Rs. 15000/- to the student with the best academic performance in the Computational Engineering branch of Inter-Disciplinary Dual Degree Programme.



#### PEESAPATI S S SREEHARSHA CH17B062

Dual Degree, IDDD Computational Engineering

"I thank the donors for encouraging the students to focus and perform well in the programs of their interest, especially for the interdisciplinary programs, by recognizing the efforts in academics."

Please find the link below which has the details of all the 2023 prize winners announced during the 60th Convocation held on 22nd July CLICK HERE

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# **Prof. T. N. Govindarajan Prize**

**Criteria**: This prize is Instituted in the year 2012. The award consists of a silver medal and cash award of Rs.10000/- to the student with the best academic record (highest CGPA) in 1st & 2nd semesters of M.B.A.



SANJANA KUMAR MS20A052

"Thank you so much for the wonderful surprise and the kind gesture from your end. It makes me feel gratified and accomplished about all the efforts put in during my tenure as a student in the esteemed Institute."

# Dr. S. S. Srikanta Prize

**Criteria**: This award is instituted in the year 2015. Awards consist of a silver medal of 2" dia and cash award of Rs. 15000/- to the M. Tech student with the best academic record in Clinical Engineering in Biotechnology.



AKASH DHETARWAL BT20M017 M. Tech. , Department of Biotechnology

"Thank you for your generous gift. I feel very blessed and humbled after receiving this award. Your donation is not only an amazing help, but it also shows what a big and kind heart you have. People like you are an inspiration to all. This will motivate me to do more hard work and achieve higher milestones in my life to get the awards and appreciations. Again, thank you so much."

## Prof. K. A. V. Pandalai Prize

**Criteria**: This award is instituted in the year 2015. Awards consist of a silver medal of 2" dia and cash award of Rs. 15000/- to the M. Tech student with the best academic record in Ocean Technology – OE5.



INAMDAR ESHAN HEMANT
OE20M022
M. Tech. , Department of Engineering
Design

"I am grateful for receiving the award. I thank you for your generous gesture. I ensure you that I will cherish this award forever."

# **Prof. E. G. Tulapurkara Prize**

**Criteria**: A silver medal and cash award of Rs.10000/- to the student with the best academic record in the 5th and 6th semesters of the B. Tech/Dual Degree program.



**NIHAL S MANVI** AE18BO31

"Thank you so much for the wonderful surprise and the kind gesture from your end. It makes me feel gratified and accomplished about all the efforts put in during my tenure as a student in the esteemed Institute."

# **Prof. T. Govindaraj Prize**

**Criteria**: This award is instituted in the year 2015. Awards consist of a silver medal of 2" dia and cash award of Rs. 15000/- to the student with best academic performance in Energy Systems branch of Inter Disciplinary Dual Degree Programme.



HARI PRASAD V
ED17B012
B. Tech. Department of Engineering Design

"I am thankful for the recognition and the award. I had chosen energy systems because of my interest in solving climate change challenges and I am currently developing my skills to tackle the same in industry. I believe this recognition is not only for me but for my department that will encourage more people towards solving the climate change issue. I thank you once again for your time and efforts."

# **Prof. T. K. Varadan Prize**

**Criteria**: This prize is Instituted in the year 2012. The award consists of a silver medal and cash award of Rs.5000/- to the student with the best academic record in the 3rd and 4th semesters of B. Tech/Dual Degree program.



SHUBHAM RAVINDRA MAHAJAN AE18BO41

"I am very grateful for this humble gesture. I've always strived towards making the best use of my capabilities and learn along the way. Such a gesture only motivates me more to put more efforts in realizing my dreams. I promise to keep working hard to bring more laurels to the institute and the country."

BACK∢

# THANK YOU FOR YOUR SUPPORT!

# Dr. Parasuram Balasubramanian & Mrs. Jayanthi Balasubramanian and Family!



Thank you for your sustained generosity to IIT Madras over the years. Contributors such as yourself enable our students and Professors to dream big and work towards a better and brighter future.

We hope you are proud of your relations with IIT Madras and how it has remained steadfastly committed to academic and research excellence since the time of your connection. You and your family have been instrumental in facilitating this significant growth.

Our efforts to nurture the culture of academic excellence that is the hallmark of IIT Madras – quality education, cutting-edge research, and unfettered creativity shall continue. We are privileged and humbled to have you and your family walking with us along this trail. We wish you and your family the best always in all walks of life!



Indian Institute of Technology Madras, Chennai – 600036

www.iitm.ac.in

For more information, please contact:

Office of Alumni and Corporate Relations

T: +91-44-2257 8390 | acr.iitm.ac.in









