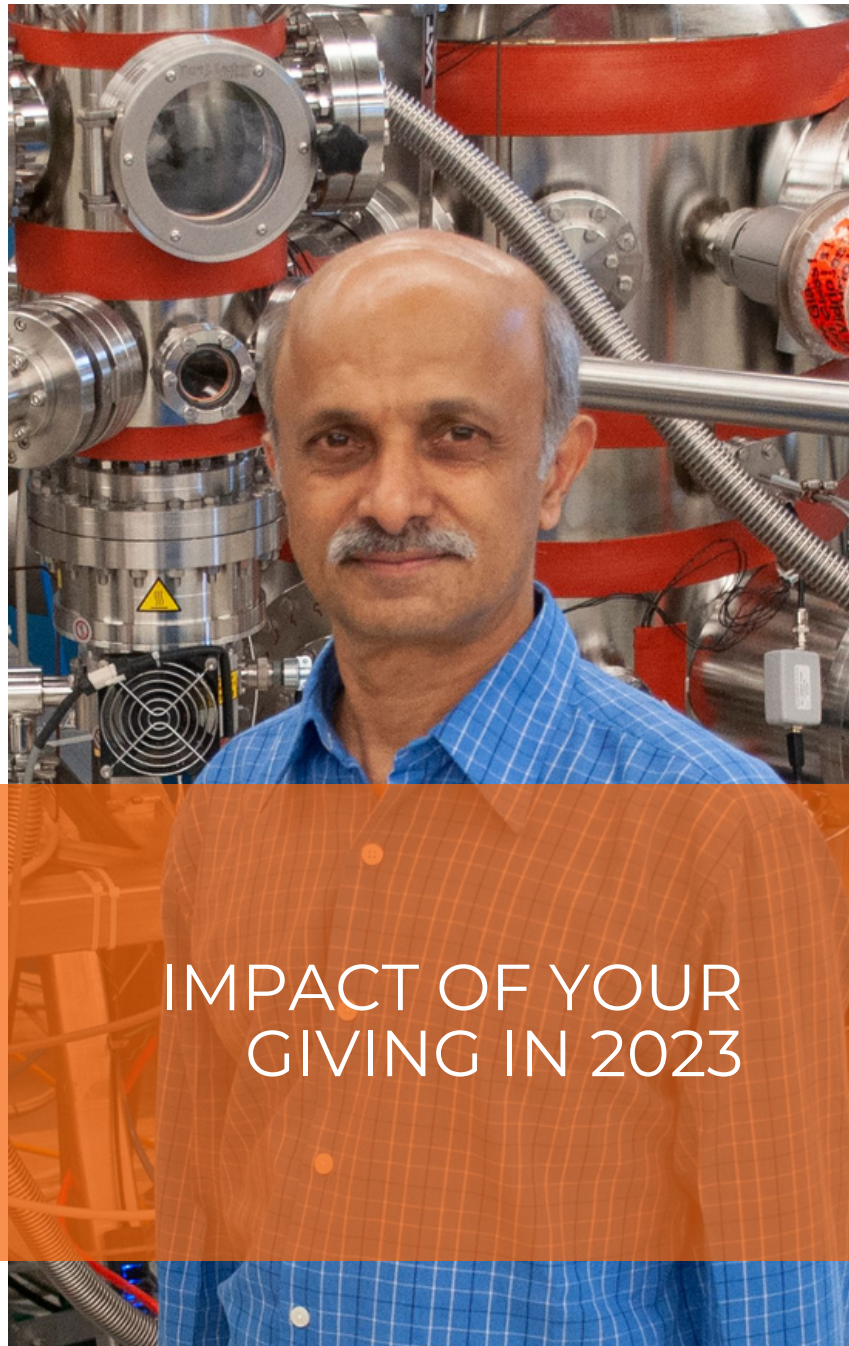




Indian Institute of
Technology Madras
Office of Alumni and
Corporate Relations

Celebrating the Generosity of

Prof. Jagadeesh S. Moodera



IMPACT OF YOUR
GIVING IN 2023

Director's Message



Prof. Kamakoti Veezhinathan
Director, IIT Madras

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, IIT Madras



Greetings!

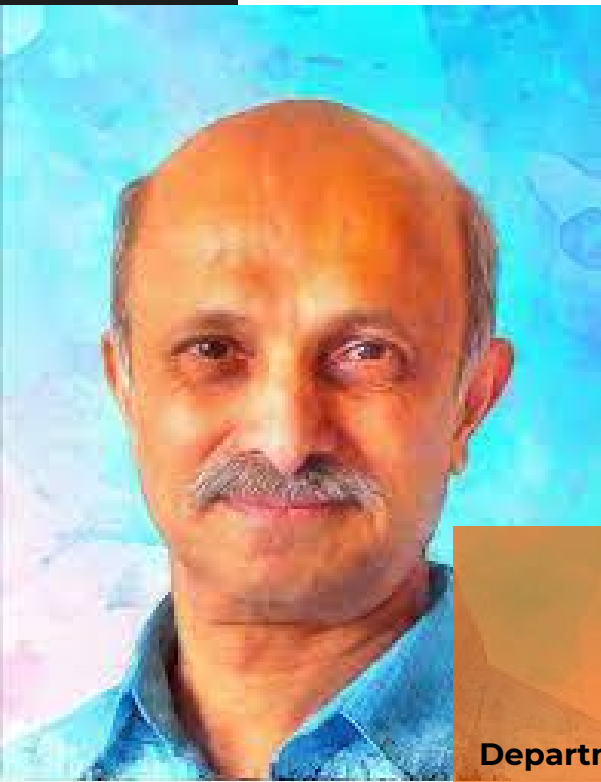
I express my heartfelt gratitude to you for your generous support to IIT Madras. We appreciate your passion in supporting the causes you do and I assure you that your contributions will be optimally utilised. This report has been compiled to convey how your largesse has touched lives and made a difference 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 endeavours.

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"**





Prof. Jagadeesh S. Moodera

1978/Ph.D/PH

Senior Research Scientist

Department of Physics, Massachusetts Institute of Technology

The senior research scientist, Jagadeesh S. Moodera in the department of Physics in Massachusetts Institute of Technology is a gifted American physicist of Indian origin who have been awarded with Oliver Buckley Price in condensed matter physics 2009. He is a prestigious alumnus of Indian Institute of Technology, Madras where he completed his PhD in Physics 1978. He did his bachelors and masters of science in physics from Mysore University. After his thesis completion, he joined the department of physics as a research associate in University of West Virginia and later, he joined MIT as a research staff at the Francis Bitter National Magnet Laboratory (FBML) in 1981. He currently leads the Thin Film Magnetism, Superconductivity and Nano spintronics group of MIT. He is also a visiting professor at Technological University of Eindhoven in The Netherlands, an adjunct professor at Suffolk University, Distinguished Foreign Scientist at National Physical Laboratory in India and a Distinguished Professor at IIT Madras.

In 2000, Dr. Jagadeesh Moodera was Honored with American Physical Society Fellowship for pioneering and sustained contributions to understand spin-polarization transporting solids and for inspiring mentorship of all level of students by including high school honor students in summer, under graduates, graduates, masters and diploma students. His research team also constituted post doctorates and visiting scientists which added diversity and inclusivity under his guidance. All the research projects of Dr. Jagadeesh Moodera revolves around the fundamental and applied aspects of physics giving practical solutions through experimentation and he is considered as the leader of spin-polarization and an expert in thin film, super conductivity which lays foundations for advanced future technologies including components of hard disks. He also has several notable publications and his works are cited by more than 23 thousand researchers.

The report will present a thorough assessment of the impact that your contributions have made towards following causes.

01

Gurukula Project

02

**Online BS Degree in Data Science
and Application**



Gurukula Project

The interest accrued from the Gurukula project has been supported towards the scholarship for International Students. A few feedback from these students is given below:

Feedback

Tesfaye Dejene Nura

M Tech, Advanced Materials & Nano Technology
Country – Ethiopia



“*The greatest outcome of this scholarship is the privilege of learning from the most esteemed professors, where one can unlock the boundless treasures of knowledge and wisdom. To a greater extent. I could not have a chance to study my M. Tech without financial assistance. And the scholarship provided Just that.*

The tuition fee waiver along with a monthly living allowance has greatly aided in reducing the financial burden. The monthly stipend allows to manage the expenses like food, stationery and other miscellaneous costs efficiently.”

Purushottam Ray

M Tech, Mechanical Engineering
Country – Nepal



“*We can live in a hostel with that scholarship, it helps to pay amount in hostel. It has reduced our burden and our family burden on paying for my monthly expenses.*”

Feedback



Navin Yadav

M Tech, Aerospace Engineering

Country – Nepal

“

This scholarship is good for student like management, studies and session for student about academic and performance, The scholarship has totally benefited me and without the support of scholarship I won't be able to complete my master's degree.

The scholarship has put me one step ahead in my academic goal because after completing my master there will a lot opportunity for job, research.

Grabbing a scholarship helps a lot as student need not worry about financial things and can focus on studies.”



Akhilesh Kumar Mishra

M Tech, Data Science

Country – Nepal

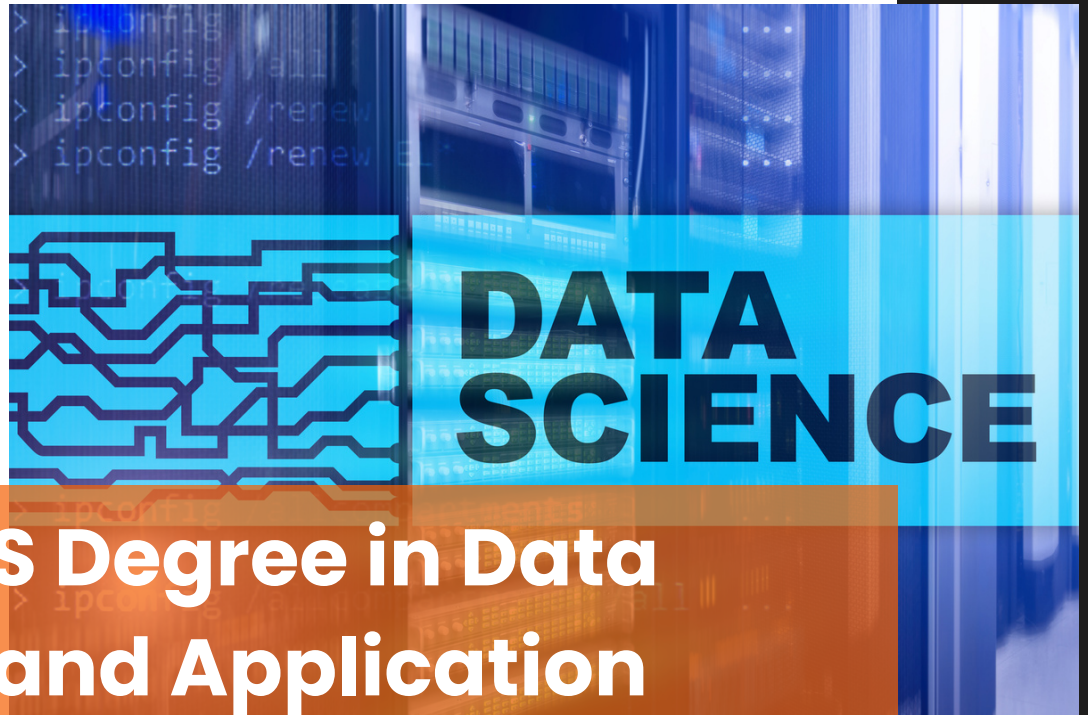
“

This Scholarship can open doors for students who might not otherwise have the means to attend college or pursue advanced degrees, enabling them to access higher education and better career opportunities. It provides a privileged opportunity for foreign students to study at IITM.

This Scholarship has helped me enrol into a trending programme which has a great scope in academia and industry. Also, it helps reducing the financial burden of student, allowing to focus more on the studies and personal development.

”

The greatest outcome of this scholarship is the privilege of learning from the most esteemed professors. where one can unlock the boundless treasures of knowledge and wisdom.



Online BS Degree in Data Science and Application

IITM's BS in Data Science and Applications (study.iitm.ac.in/ds) program was started in June 2020 and is a game changer in the Indian education on text, being the first ever program from an IIT to do the following:

It admits students based on a qualifier process rather than a highly competitive entrance exam. The qualifier is inbuilt into the program, where the applicant has to go through 4 weeks of content of the first 4 courses of the foundation level and pass the exam based on this. If they cross the cutoff they are eligible to start the program.

There is no limit on the seats in the program, no limitation on age of applicants and so too the geographical location of learners. Also, eligibility to apply is English and Maths in std X and hence allows for students from all streams such as humanities, commerce, economics, sciences, law, medicine, etc to apply apart from those in engineering. Students in the program could be doing this as their primary degree, second degree, either studying in a physical college or working somewhere.

There are 3 terms in the program, each of 12 weeks duration and all courses are offered in all the terms, such that students can select the courses they wish to register for in every term, as per their convenience and time availability. Hence, they pace their study and progress in the program.

While the course videos and assignments are delivered online, quizzes conducted at the end of months 1 and 2 in the term and the final exam at the end of month 3 have to be taken in person at designated centres under proctored conditions.

Absolute grading pattern is followed in the program.

Program comprises 3 levels:

Foundation level

8 courses - English 1, English 2, Maths 1, Maths 2, Statistics 1, Statistics 2, Computational Thinking, Introduction to python programming.
Total credits = 32

Diploma level

This is divided into 2 diplomas - Diploma in programming and Diploma in Data Science. Each diploma comprises 6 theory courses and 2 projects. Total credits: $27 \times 2 = 54$. Courses include Data structures and algorithms, Databases, Conceptual programming, System commands, Application development 1 and 2 on the programming side. Machine learning foundations, ML Techniques, ML practice, Business data management, Business analytics, Tools in data science are the courses in the Diploma in Data Science program.

Degree level

There are 2 core pairs that students have to mandatorily complete - AI, Deep learning, Software Engineering, Software Testing (16 credits). In addition, they have to complete 40 credits from electives.

There are multiple exits in the program - a certificate at the end of the foundation level, Diplomas awarded by the Senate of IIT Madras in Level 2 and a 3-year BSc degree or a 4 year BS degree. Students can choose to exit at any of these points.

Currently we have more than 22000 students studying in the program, which will complete 3 years in Dec 2023

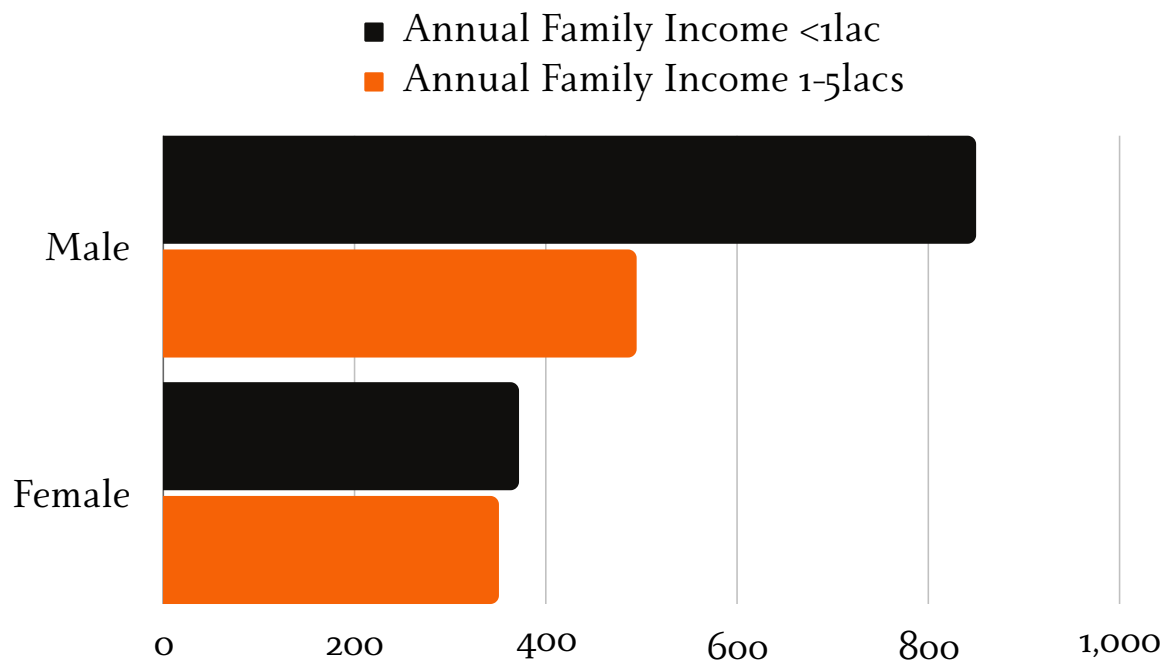
Eligibility Criteria for the Merit-cum-Means Scholarship:

- ▶▶ Students with Family Income less than ₹5,00,000.
- ▶▶ Students from all categories (SC/ST/OBC/PWD/General) are eligible for this scholarship
- ▶▶ Students should have cleared the qualifier exam.
- ▶▶ The learners from India are only eligible for this scholarship.
- ▶▶ Eligible students will be given preference in the scholarship based on their academic performance.



1900+ students across India
have been benefitted
through the donor support

Statistics of student sunder Merit-Cum-Means Scholarship



Feedback

“ I belong to a low-income family. My father's profession is agriculture and as well as we know the economic condition of farmers is very poor in India. This scholarship brings a smile for a needy. When I got this scholarship, I became so happy not only for the scholarship in foundation level but also for diploma level. This scholarship encourages those who belong to poor families but also want higher education. I'm thankful for you to support me with this and encourage me to keep learning. ”

“ My father sells vegetables on cart also he is tailor so occasionally he do that work, i used to give tuitions to student. So, like that i used to manage. Very much, if this scholarship i didn't get i will not able to continue this course. Till now whatever degree and certification i have done it is only due to reason i got scholarship. I was always willing to do engineering after securing good rank in intermediate i was not able to do that due to not sure about scholarship. So, it is helping me to be happy and satisfied with what i am doing. Thank you so much. Just because of you my whole family will be motivated towards education. In my house only i am most educated girls no one doesn't even know how important it is to be educated. But when people will see that through me my family values and problems how changed they will also get motivated to get knowledge. And this will not be possible without scholarship. I will be always grateful to you. And i promise one day i will also help other in same way. ”

“ I come from a financially disadvantaged background where only one person in my family is employed, and their income is barely enough for us to meet our basic survival needs. In between May 2023 term, I had made the decision to discontinue my course due to my inability to afford the tuition fees. Fortunately, just before the conclusion of the May term, I received a message from IITM regarding a scholarship opportunity. This information led me to reconsider my decision, and I chose to continue my degree by enrolling in the September 2023 term. This scholarship has been instrumental in assisting me in achieving my educational goals. This scholarship has played a crucial role in my academic journey, enabling me to surmount financial challenges and pursue my education. I'm sincerely grateful for your support. ”

We are grateful to you

Prof. Jagadeesh S. Moodera



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 alma mater and how it has remained steadfastly committed to academic and research excellence during and after your time here. 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!



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