



AMRITA
VISHWA VIDYAPEETHAM
DEEMED TO BE UNIVERSITY

School of
Engineering
AMRITAPURI

Imparting Value-based Education Through Global Exposure

5TH
BEST
UNIVERSITY
nirf NATIONAL INSTITUTIONAL RANKING FRAMEWORK

13TH
BEST
IN OVERALL
CATEGORY
nirf NATIONAL INSTITUTIONAL RANKING FRAMEWORK



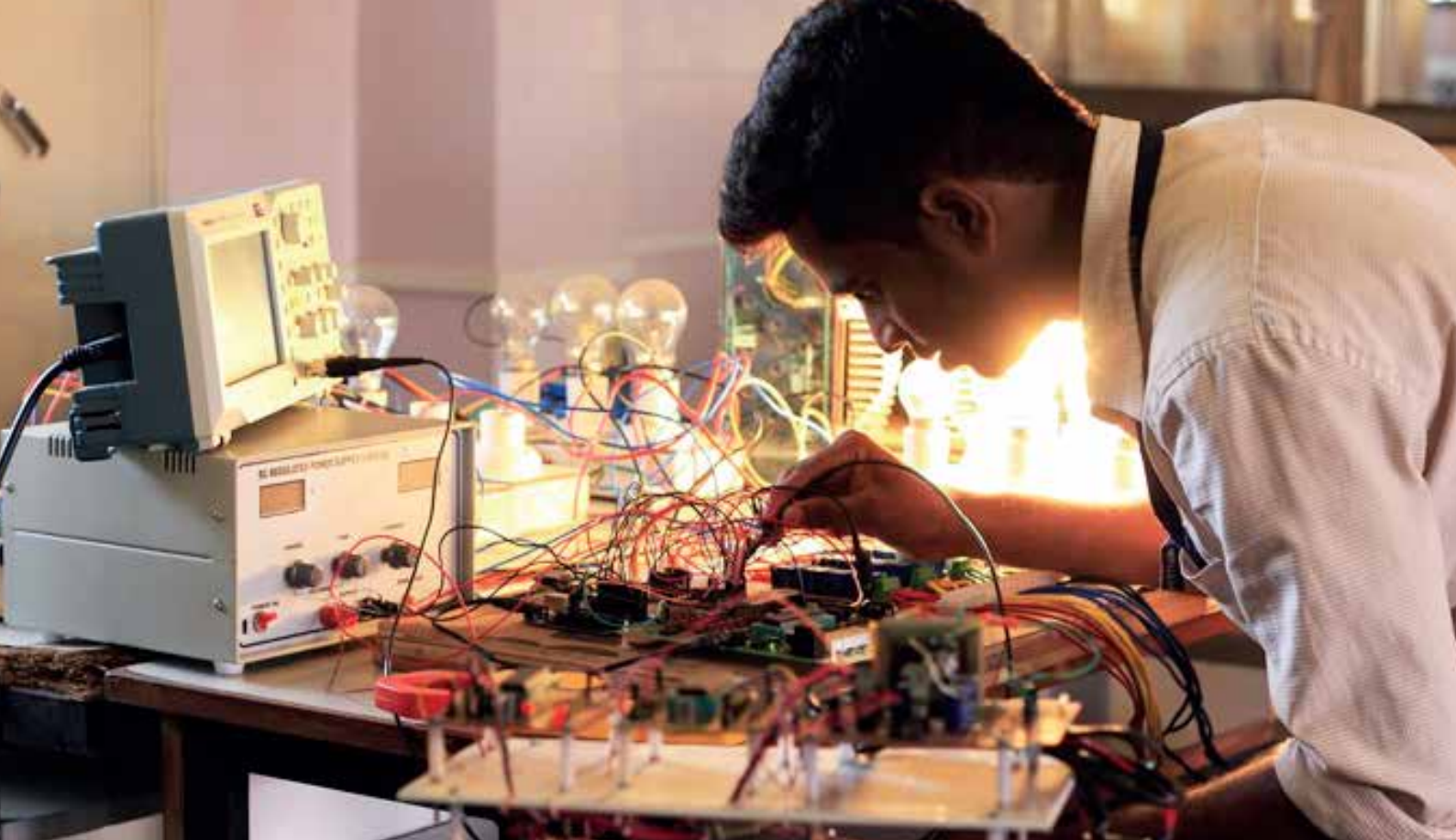
No.1 PRIVATE
UNIVERSITY
IN INDIA
THE WORLD UNIVERSITY RANKINGS

No.1 INTERNATIONAL
FACULTY
QS WORLD UNIVERSITY RANKINGS 2020



“The main purpose of education should be to impart a culture of the heart”

Sri Mata Amritanandamayi Devi,
Chancellor, Amrita Vishwa Vidyapeetham



Amrita School of Engineering, Amritapuri

The Portrait of Excellence

Nestled in the picturesque village of Vallikavu, across the beautiful and famed backwaters of Kerala, is Amrita Vishwa Vidyapeetham's Amritapuri campus, blending into the natural setting of the environment with its endless stretches of coconut palm groves. The Arabian Sea that borders Kerala on the west is only a few hundred meters from the campus. Located close to the international headquarters of the Mata Amritanandamayi Math, the campus provides a learning environment that harmoniously blends science and spirituality. Students have a unique opportunity to nurture values and self-discipline. Over 90% of the students reside in hostels on campus.



SCAN FOR
A VIRTUAL
CAMPUS
TOUR

Attracted by its pristine beauty and the campus's emphasis on technical excellence, students are drawn from just around the corner as well as from far across the globe. Eminent academicians and corporate professionals share their knowledge and experiences with the students and help them apply their theoretical knowledge to real-life projects. Academic counselors mentor the students, acting as their friend, philosopher and guide. All Schools and Research Centers on campus are committed to generating, disseminating and preserving knowledge.

Amrita Vishwa Vidyapeetham

Amrita Vishwa Vidyapeetham is a multi-campus, multi-disciplinary research academia that is accredited 'A++' by NAAC and is ranked as one of the best research institutions in India.

Amrita is spread across six campuses in three states of India - Kerala, Tamil Nadu and Karnataka, with the headquarters at Ettimadai, Coimbatore, Tamil Nadu. Amrita Vishwa Vidyapeetham continuously collaborates with top US universities including Ivy league universities and top European universities for regular student exchange programmes and has emerged as one of the fastest growing institutions

of higher learning in India. The institution is managed by the Mata Amritanandamayi Math.

Amrita aims to prepare a generation that could successfully meet the rigorous demands of the Information Age and while being imbued with the noble ideals of selfless service and love.

With many accolades in the fields of Engineering, Business, Medicine and Arts & Sciences, the programmes at Amrita align with the national vision of strengthening education and research. They aim at nurturing youngsters with strong fundamentals which equip them to become competent professionals in their chosen field of study.

MOTTO

Śhraddhāvān Labhate Jñānam
The Earnest Aspirant Gains Supreme Wisdom



Vision

To be an exemplary institution that thrives from its commitment to the transformative power of value-based education, endowed with technological and pedagogical initiatives, with a special emphasis on health and well-being, that provide the impetus for goal-oriented research for societal benefit and a motivated educational journey, towards a harmonious, prosperous and sustainable future.

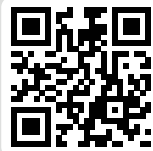


Mission

There are two types of education: education for living and education for life. Studying to become a professional is education for a living. On the other hand, education for life requires an understanding of the essential human values. At Amrita, we believe that education should also impart a culture of the heart, based on enduring values and inner strength.



Infrastructure



SCAN TO
FIND OUT
MORE

Although located in a remote village blessed with panoramic backwater expanses and tiny glistening brooks on the one side and the mighty sea on the other side, all modern amenities which go to make campus life memorable, are provided. There is a well-stocked library, cafeterias and sports facilities. A culture of enthusiastically celebrating festivals and other events makes life on campus

stimulating. Spread over 80 acres of land, the campus has over a million square feet of built-up area comprising of academic blocks, student hostels and other amenities.

Distinguished professors and scholars share their knowledge and experiences with the students. The campus provides all modern amenities from laboratories to playgrounds, cafeterias, and more.



Student Facilities



Well-stocked Library



Transport Facilities



Modern Computer Facilities



Medical Services



Workshops and Laboratories



Canteen and Refreshments



Hostel Accommodation



Reprographic and STD Services



Sports and Gym Facilities



Internet Browsing Center



Banking & ATM



General Store



B.Tech Programmes



Computer Science & Engineering



Electrical & Electronics Engineering



Electrical & Computer Engineering



Mechanical Engineering



Computer Science & Engineering (AI)



Electronics & Computer Engineering



Electronics & Communication Engineering

Curriculum on par with industry requirements

Entrepreneurial development opportunities

International collaborations and exchange programmes



Research



SCAN TO FIND OUT MORE

Our Chancellor Amma emphasizes the importance of research activities at the three Schools of Engineering. Research projects aim to benefit humanity in some way, and the research is usually undertaken in collaboration with industry, academia and government. The projects enjoy support

from international and national partners including the European Commission, DST, TIFAC, ISRO, DRDO, Ministry of Information Technology. Faculty at Amrita are encouraged to publish papers and present their work at conferences around the country and the world.

Amrita Center for Cyber Security Systems & Networks

Amrita Center for Research in Analytics, Technologies & Education (AmritaCREATE)

Amrita Center for Wireless Networks & Applications (AmritaWNA)

Amrita Multi Modal Applications Using Computer & Human Interaction (AMMACHI) Labs

Amrita Technology Business Incubator (Amrita TBI)

Computational Neuroscience & Neurophysiology

Amrita e-Learning Research Lab (AERL)

Humanitarian Technology (HuT) Labs

76+ PATENTS AND INVENTIONS FILED

230+ RESEARCH GRANTS CRORE

180+ AWARDS AND RECOGNITIONS

Placements

Placements at Amrita have always been excellent. Engineering students who are eligible and opt for placements have more than one job offer, on average.

Some of the key aspects that are taken into account by the placement team are:

Ensuring summer and winter internships and final placements of students from all branches in reputed organisations.

Improving the quality of placements in terms of job opportunities, companies of relevance that visit the campus and the highest and average salaries.

88% STUDENTS
PLACED
in 2021

114⁺ COMPANIES
RECRUITING
AMRITA STUDENTS

 **ATLASSIAN**  Microsoft  CISCO
 amazon  intel.  VOLVO  CATERPILLAR

₹56.95 HIGHEST
CTC
LAKH P.A.

₹6 AVERAGE
CTC
LAKH P.A.

₹80,000 HIGHEST
STIPEND
FOR INTERNSHIP
PER MONTH



Scholarships

Amrita Vishwa Vidyapeetham has reserved 50% seats in B.Tech programmes to meritorious students who seek admission through AEEE or JEE Main. Scholarship seats are reserved in all B.Tech branches. While the first-year scholarship is allotted based on the entrance examination rank, the scholarships in subsequent years are based on the CGPA.

50% SEATS
WITH
SCHOLARSHIP

₹3 CRORE AWARDED TO
300+ TOP-RANKED
STUDENTS
WORTH SCHOLARSHIPS



Student Clubs & Events

With the objective to further overall development of students' participation, a wide range of extra-curricular, social and community development activities ranging from Performing Arts to Science Forums are encouraged at Amrita. These clubs help in fostering creative talent and team-spirit among the students.

Sanskriti

The primary objective of the cultural wing is to promote Indian identity and inculcate the still relevant traditional values among the students. It has taken initiatives to organise a wide range of Indian festivals, cultural performances, heritage tours etc.



SAE Collegiate Club

The club represented BAJA SAEINDIA (an annual off-road event and Collegiate Design Competition) with Airavat - the mini buggy. The participating team AGRAGANYA BAJA comprises 25 creative minds passionate about designing and building an ATV.



IEEE IAS Chapter

Aims to enlighten young engineers and keep them well informed about the technological and industrial advancements in the field of Electrical and Electronics Engineering.



Other Clubs

SAE Collegiate Club

Amrita Sanjeevani

Amrita Robotics Club

Green Friends

Astronomy Club

IEEE Student Chapter

Team BiOs

FOSS @ Amrita



International Opportunities



The B.Tech + M.S program provides a global opportunity to join the student exchange programmes and learn from more than 160+ international universities.

Amrita Vishwa Vidyapeetham is putting in place a range of institutional links which support key international activities such student exchanges, dual-degrees, remote teaching, the development of joint

academic programmes, co-guiding the Ph.D. students, high-end research collaboration and other collaborative initiatives. In 2012, Amrita Vishwa Vidyapeetham was chosen as the Co-Coordinator of the prestigious European Union Project i.e. Erasmus Mundus II (3 Million Euro Project) along with Politecnico Di Torino, Italy.

No.1 INTERNATIONAL FACULTY

160+

INTERNATIONAL COLLABORATIONS FOR STUDENTS' EXCHANGE PROGRAMMES

200+

STUDENTS AVAIL STUDY ABROAD PROGRAMMES EVERY YEAR

The Amrita Center for International Programs (ACIP) is committed to creating opportunities for the diverse exchange of knowledge and ideas.

By partnering with several universities in Europe and the U.S., the Center now provides exciting opportunities to live and study at over 150 internationally renowned institutions.

Amrita offers student exchange and dual degree programmes with foreign universities, including:



UNIVERSITY OF CALIFORNIA, SAN DIEGO, **USA**



TELECOM SCHOOL OF MANAGEMENT, **FRANCE**



UNIVERSITY OF CALIFORNIA, DAVIS, **USA**



UNIVERSITY OF OAKLAND, MICHIGAN, **USA**



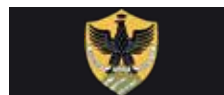
UNIVERSITY OF NEW MEXICO, **USA**



VU AMSTERDAM, **NETHERLANDS**



TECHNICAL UNIVERSITY OF MUNICH, **GERMANY**



UNIVERSITY OF L'AQUILA, **ITALY**



UNIVERSITY OF LOUISIANA, LAFAYETTE, **USA**



UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK, **USA**



UNIVERSITY OF PADERBORN, **GERMANY**

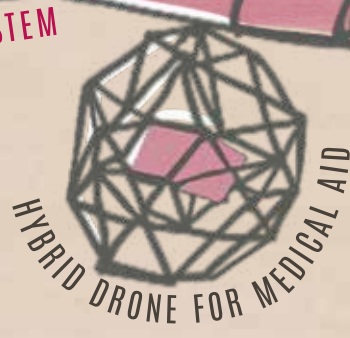
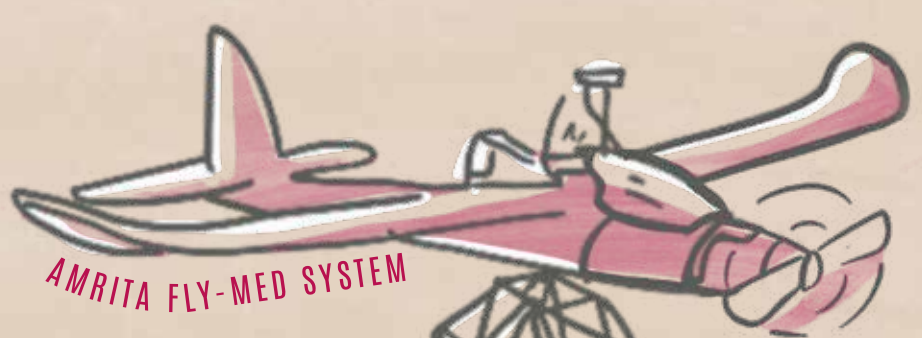


UPPSALA UNIVERSITY, **SWEDEN**

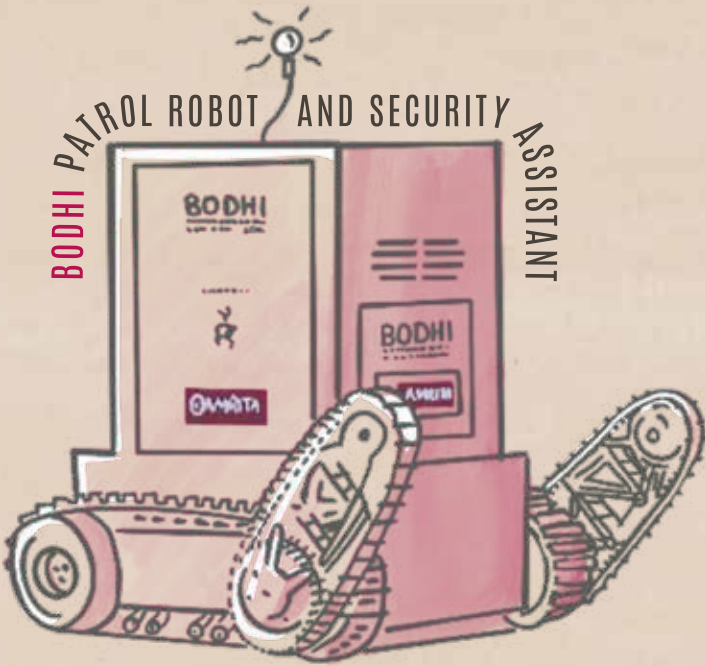


(Tech) values =
Amrita
Engineers

VALUES = { ACTIONS THAT BRING POSITIVE CHANGE TO HUMANITY, EMPOWER ECONOMIES, FIGHT PANDEMICS, INNOVATE FOR A BETTER FUTURE, BRING SOLUTIONS TO PROBLEMS FACED BY THE PLANET & MORE }



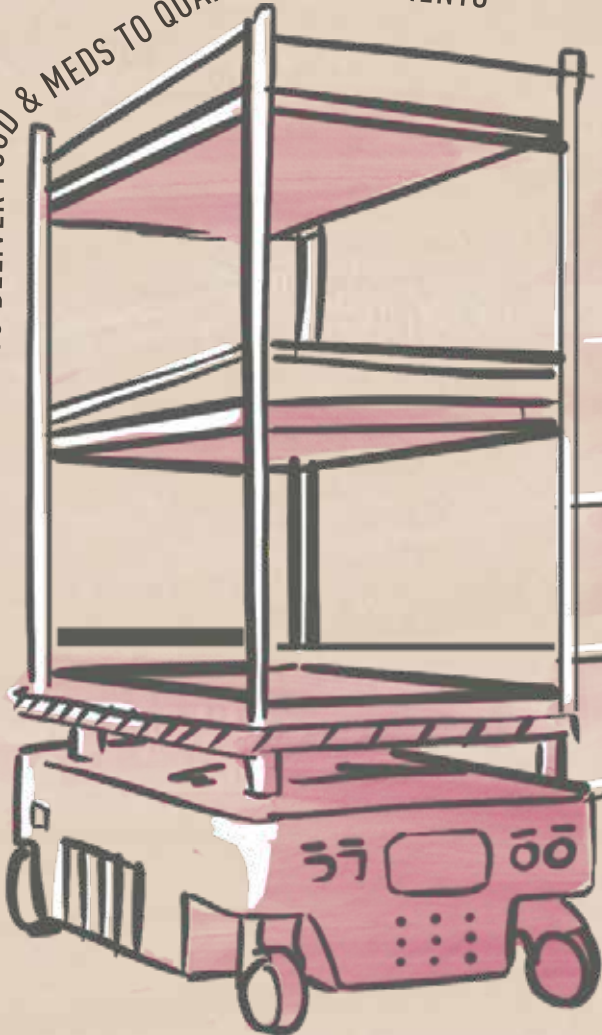
BODHI PATROL ROBOT AND SECURITY ASSISTANT



SELF-E ADVANCED WHEELCHAIR SYSTEM

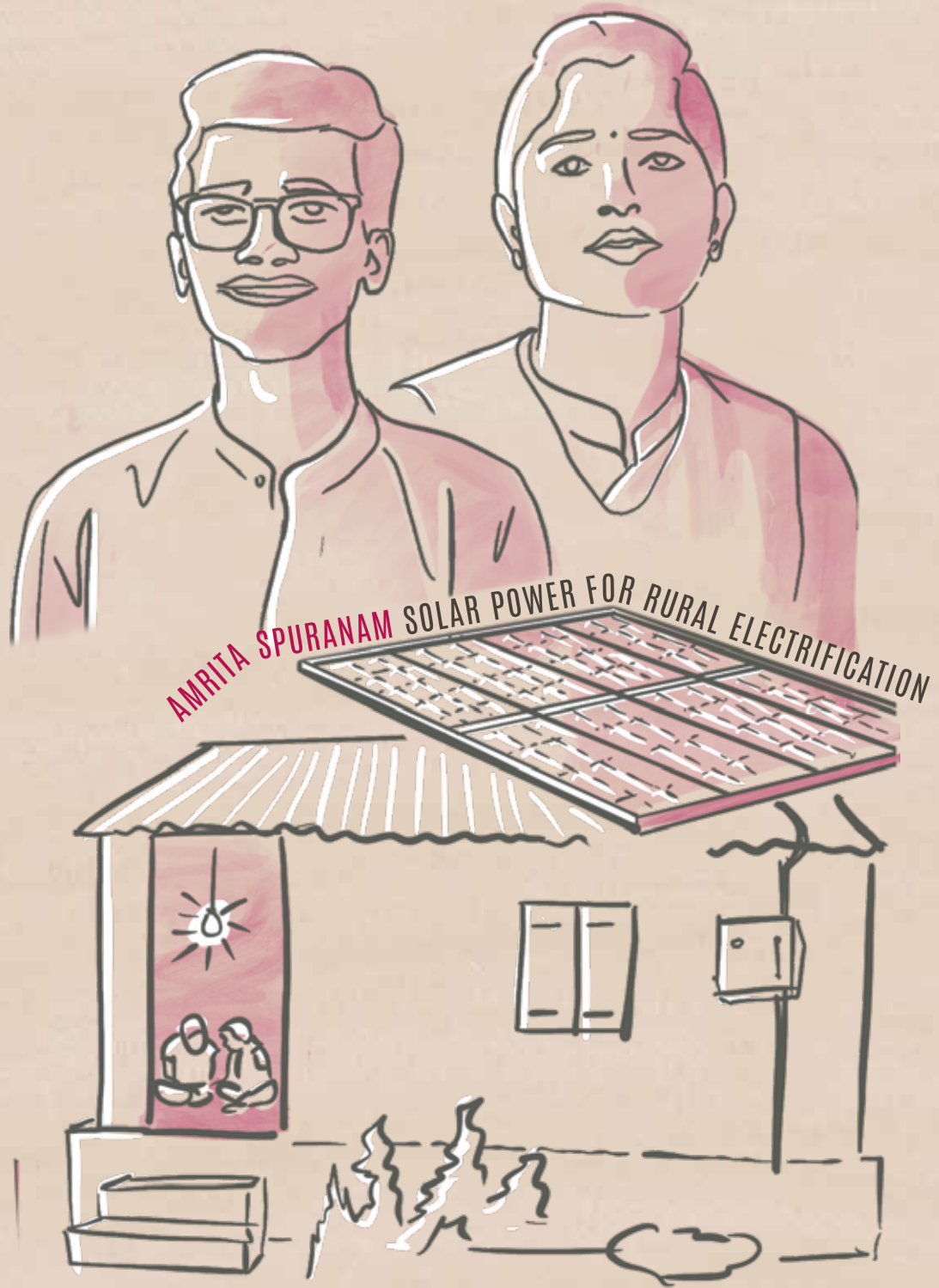


ANNAPOORNA TELE-OPERATED ROBOT TO DELIVER FOOD & MEDS TO QUARANTINED PATIENTS



JIVAMRITAM PROVIDING CLEAN DRINKING WATER





*“There are two kinds of education:
education for living and education for life.”*

Shri. Mata Amritanandamayi Devi
Chancellor, Amrita Vishwa Vidyapeetham

Live-in-Labs®

Established in 2013, Amrita Live-in-Labs® is a platform where both learning and humanitarian activities take place - where students can practically apply learned theory and contribute to the development of the community. With over 150 projects in 21 states across India, participants of this programme have touched the lives of approximately 60,000 rural residents during the past several years.



Jivamritam

Providing clean drinking water to over 5,000 villages in India



Amrita Spuranam

Harnessing solar power for rural electrification



Ricycle

Designing a low-cost rice planting machine for farmers



Biofuel Energy

Using local, affordable materials to produce power

An education at Amrita helps young people achieve success in the academic and material sense, while equipping them with the knowledge, skills and values needed to lead an ethical, empowering and socially beneficial life.

Learn more about future engineering opportunities



Artificial Intelligence



Robotics



Internet of Things



Machine Learning



Electric Cars



5G Communication



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BRIDGE

A ONE-OF-A-KIND INITIATIVE FOR
2022 ENGINEERING ASPIRANTS



CERTIFICATE PROGRAMME

Engineering Foundation

Bridging the gap between science and technology among high school students who aspire to become engineers.



UPSKILLING PROGRAMME

Tech Talks

Sessions on futuristic technologies like IoT, Robotics, A.I. & M.L. by experts from Amrita School of Engineering, Chennai.



CONNECTING TOPICS IN SCIENCE WITH EMERGING TECHNOLOGIES

Mathematics

Linear Programming

- Agriculture & Food
- Engineering
- Transportation Optimization
- Energy Industry

Permutation & Combination

- Computer Architecture
- Operations Research
- Pattern Analysis
- Homeland Security

Vector

- Wave Propagation
- Oscillators
- Quantum Mechanics

Calculus

- Differential Calculus - Optimization
- Integral Calculus - Summation
- Aerospace Engineering - Ideal Rocket Equation
- Mechanical Engineering - Newton's Law of Cooling - HVAC Designs

Algebra

- A.I.
- Quantum Computing

Physics

Laser

- Medicine & Healthcare
- Manufacturing Industry
- Military
- Microelectronics
- Meteorology

Quantum Mechanics

- Cryptography
- Nanotechnology
- Uncrackable Codes

Electromagnetic Waves

- 5G Communication
- Medicine
- Holographic Processing
- Terahertz Waves

Electricity and Magnetism

- Household Appliances
- Magnetic Levitation of Trains
- Communication Systems
- Medical Systems

KNOWLEDGE OUTREACH PROGRAMMES

by AMRITA SCHOOL OF ENGINEERING



JEE Practice Examination Sessions

amritacbtpractice.in

The (Computer Based Test - CBT) portal helps students get familiarised with different types of questions, learn key exam-strategies and analyse their performance.



Algo Queen - The Girls' Programming Cup 2021

amrita.edu/algoqueen

A unique, first-of-its-kind, initiative to encourage young women to participate in competitive programming and engage in innovative problem-solving.



Parenting 4.0

Career Counselling Conclave for Engineering Aspirants & Parents, aiming to educate parents with the array of opportunities available after engineering for their children.

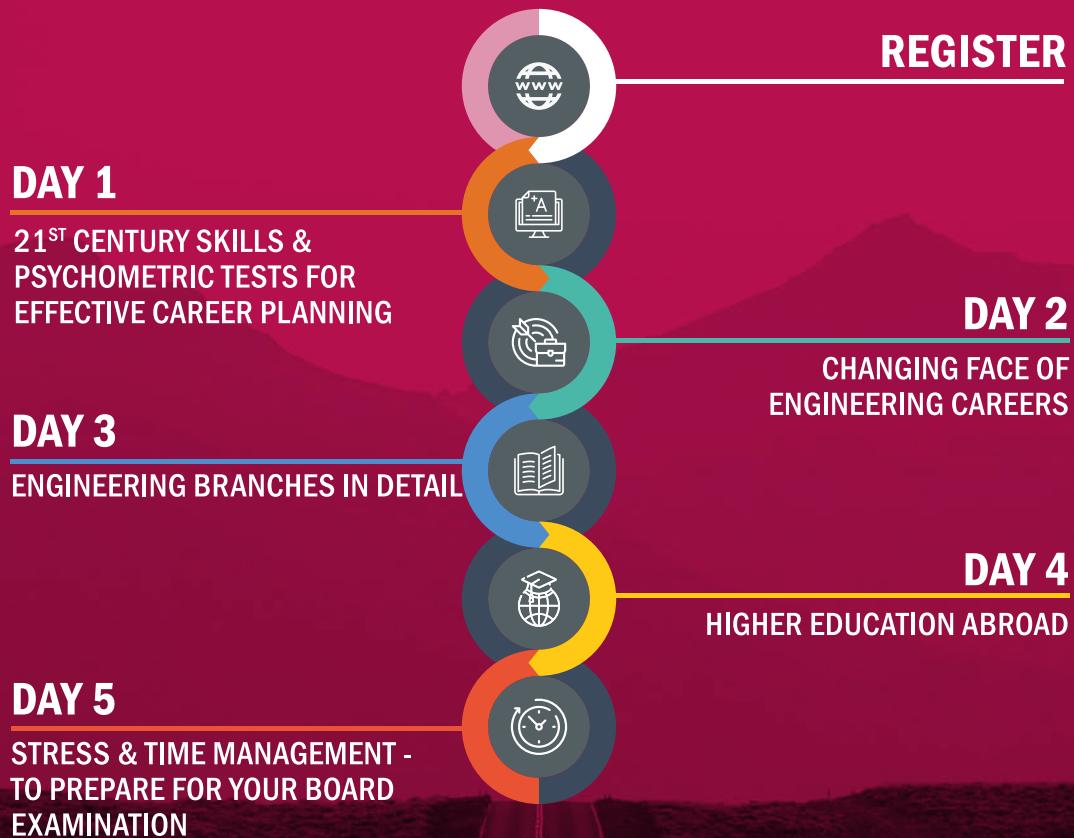
Discover your path today

amrita.edu/btech

Education for Life. Education for Living.

MARGADARSHI

CAREER COUNSELLING, ENTRANCE COACHING AND
FOUNDATION PROGRAMME



FOR MORE INFORMATION, VISIT amrita.edu/accp

OR EMAIL margadarshi@amrita.edu



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Engineering
AMRITAPURI

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For Admissions: www.amrita.edu/admissions