



AMRITA
VISHWA VIDYAPEETHAM
ESTABLISHED IN 1983

School of
Engineering
COIMBATORE

Imparting Value-based Education Through Global Exposure

5TH
BEST
UNIVERSITY
nirf

13TH
BEST
IN OVERALL
CATEGORY
nirf



RECOGNISED AS
INSTITUTION
of EMINENCE
BY THE UGC

No.1 PRIVATE
UNIVERSITY
IN INDIA
THE
WORLD
UNIVERSITY
RANKINGS

No.1 INTERNATIONAL
FACULTY
QS
WORLD
UNIVERSITY
RANKINGS
2020

A⁺⁺
GRADE
ACCREDITATION
NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL



***"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, Coimbatore

The Haven of Value Education



SCAN FOR
A VIRTUAL
CAMPUS
TOUR

Amrita Vishwa Vidyapeetham is situated in the village of Ettimadai, at the foothills of the mesmerising Bouluvanpatty ranges of the Western Ghats in the Coimbatore district of Tamil Nadu. The pristine beauty of nature offers a soothing environment for the students which is conducive for growth. The campus, through its value-based education, provides a diverse platform for personality development. Amrita provides a unique educational experience which is at par with global standards. This indelible experience remains a lasting memory in students.

A lot of emphasis is placed on eco-friendly and conservation practices in the campus. Wastewater from the hostels and faculty and staff quarters is treated using EM; no chemicals are used in the process. Organic fertilizers are made using vermicompost, pesticides have been avoided since the very beginning.

Apart from the School of Engineering, this sprawling, verdant campus is also home to the Schools of Agriculture Sciences, Business, Mass Communication and Social Work.

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 Labhatē 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

The 400 acre campus is well planned with infrastructure like academic buildings, administration wing, central library, hostels, guest house, staff-quarters, shopping complex, swimming pool and play grounds. The campus has built-up area of over 28 lakhs sq. feet linked by 7 km black topped roads, and boasts of an Olympic-size

swimming pool for students, staff and others in the campus. Eight hostels accommodate 5000 students. Two power houses are installed with total generating capacity of 1660 KVA to meet the shortage in power supply. Amrita also provides uninterrupted power and round the clock water supply.



Student Facilities



Well-stocked Library



Three Canteens



Modern Computer Facilities



Hostel Accommodation



Banking & ATM



Guest house, & more



Sports & Gym Facilities



Swimming Pool



Synthetic Tennis Court



Medical Services



General Store



B.Tech Programmes



Aerospace Engineering



Automation & Robotics Engineering



Civil Engineering



Computer Science & Engineering



Computer Science & Engineering (AI)



Chemical Engineering



Computer & Communication Engineering



Computer Science & Engineering (Cyber Security)



Electronics & Communication Engineering



Electrical & Electronics Engineering



Electronics & Computer Engineering



Mechanical 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 E-learning Research Lab (AERL)*
- | *Center for Computational Engineering & Networking (CEN)*
- | *Amrita Automotive Research & Technology Center (AARTC)*
- | *Amrita Biosensor Research Lab*
- | *Center of Excellence in Advanced Materials & Green Technologies (COE-AMGT)*
- | *TIFAC-CORE in Cyber Security*

- | *Amrita Technology Business Incubator (Amrita TBI)*
- | *Amrita Biomedical Engineering Lab (AMBE)*
- | *Amrita Center for Cyber Security Systems & Networks*
- | *Amrita Center for Wireless Networks & Applications (AmritaWNA)*

76+

PATENTS AND
INVENTIONS
FILED

230+
CRORE

RESEARCH
GRANTS

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
WORTH SCHOLARSHIPS 300+ TOP-RANKED
STUDENTS



Student Clubs & Events

Amrita emphasizes the importance of infusing Indian cultural values in the young minds. They are made to be aware of the traditional Indian classical dance and music and other cultural traditions which carry the wealth of knowledge, wisdom and beauty of generations

National Service Scheme

Amrita NSS actively involves itself in organising various community development programmes for the benefit of villages located in the vicinity of the University..



Asthra (Science & Astronomy Club)

Astra has been formed with the idea of inculcating genuine interest in the various facets of science and technology. It's about discovering new things, exploring the world around us and experimenting.



Aagneya - Sports Club of Amrita

Run by the Department of Physical Education, Aagneya nurtures the interests of versatile Sports enthusiasts. The club's events help students to find their talents and mould the sports person in them.



Other Clubs

Sahaya - The Social Club

Vision Club - Eye Donation Motivation Forum

NatyaSudha - The Dance Club

RagaSudha - The Music Club

Shristi Literary Association

Arya - Promoting Indian Cultural Heritage

Nature Club

Amrita Photography

Amrita Talkies - The Movie Club

Kalakrithi - The Art Club

Vajra - The Yoga Club

Arusuvai - The Cookery Club

SPIC MACAY (Promoting Indian Classical Music & Culture)

Naadham - Carnatic and Classical Club

Amrita Toastmasters Club

Team Media



International Opportunities



SCAN TO
FIND OUT
MORE

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 as 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:

UC San Diego

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



TELECOM SCHOOL OF
MANAGEMENT, **FRANCE**

UC DAVIS
UNIVERSITY OF CALIFORNIA

UNIVERSITY OF CALIFORNIA,
DAVIS, **USA**



UNIVERSITY OF OAKLAND,
MICHIGAN, **USA**



UNIVERSITY OF NEW
MEXICO, **USA**



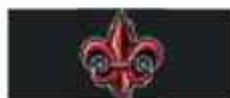
VU AMSTERDAM,
NETHERLANDS



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**



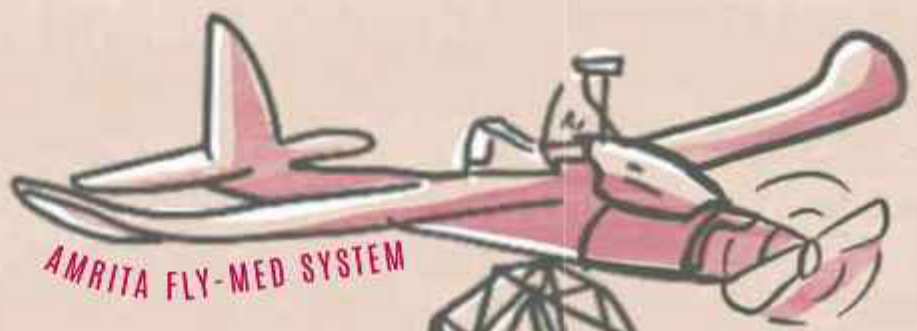
UPPSALA UNIVERSITY,
SWEDEN



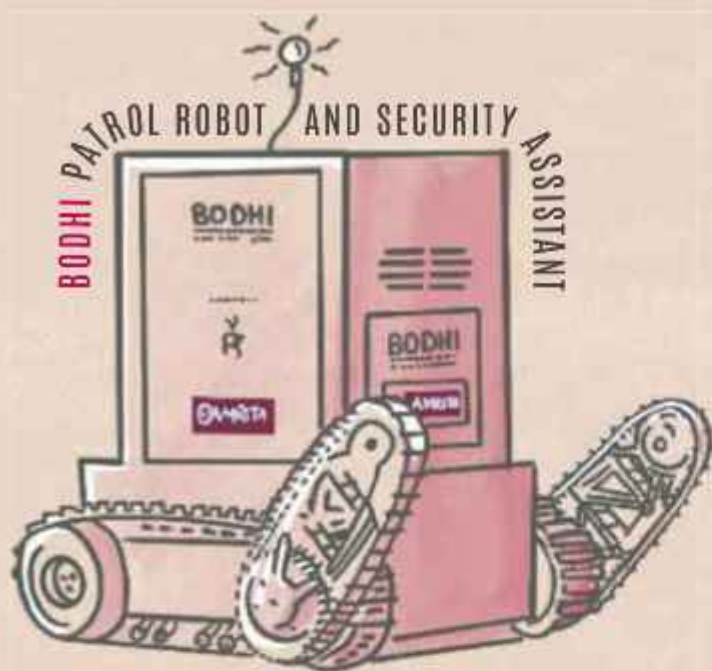
$(Tech)^{values} =$ Amrita Engineers

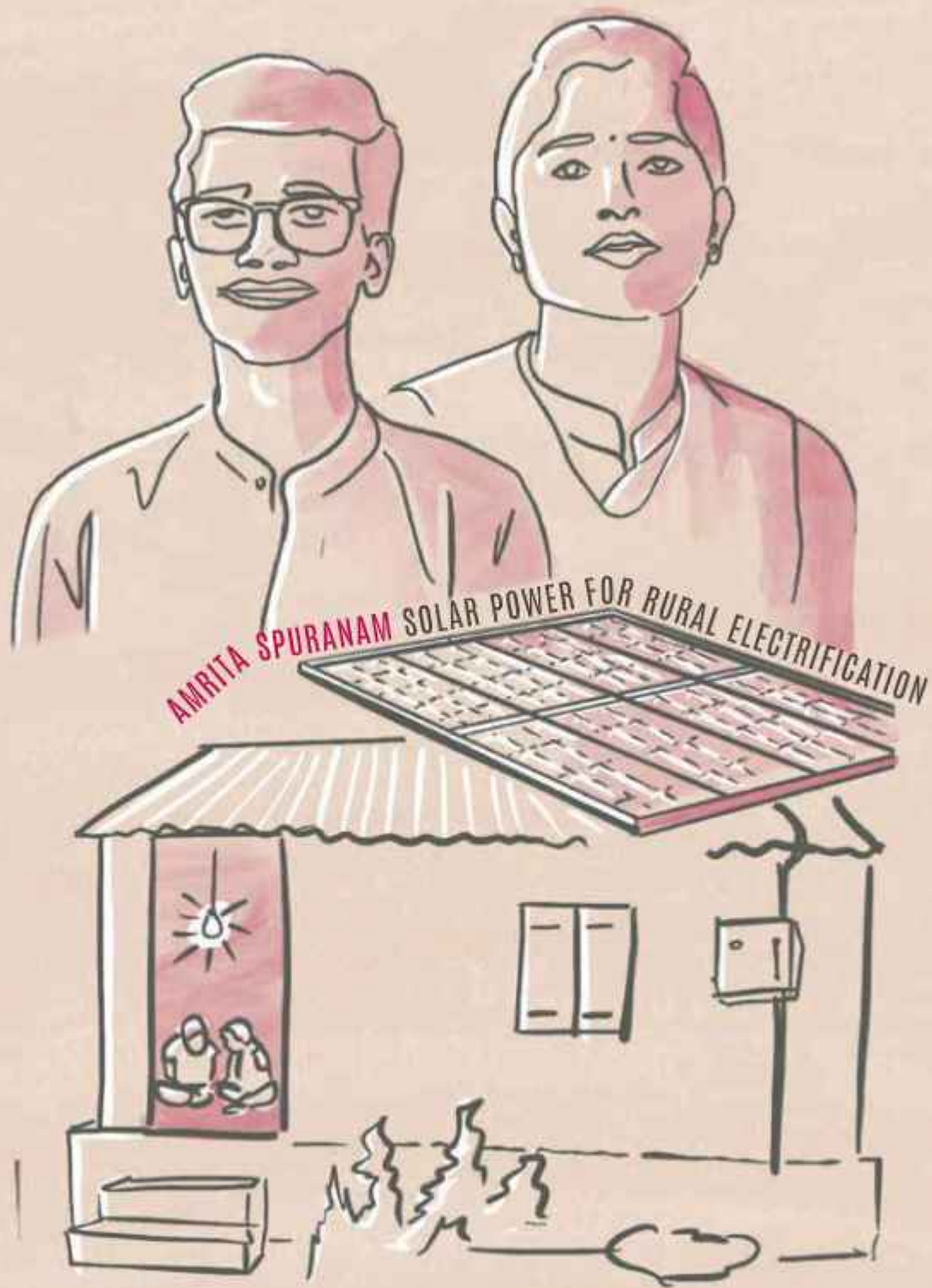
VALUES =

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



HYBRID DRONE FOR MEDICAL AID





*“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 - a 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

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

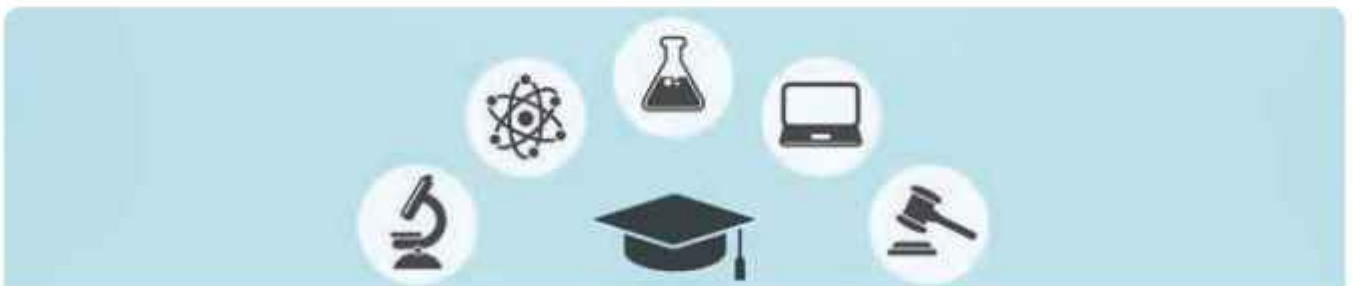
The (Computer Based Test - CBT) portal helps students get familiarised with different types of questions, learn key exam-strategies and analyse their performance.



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.

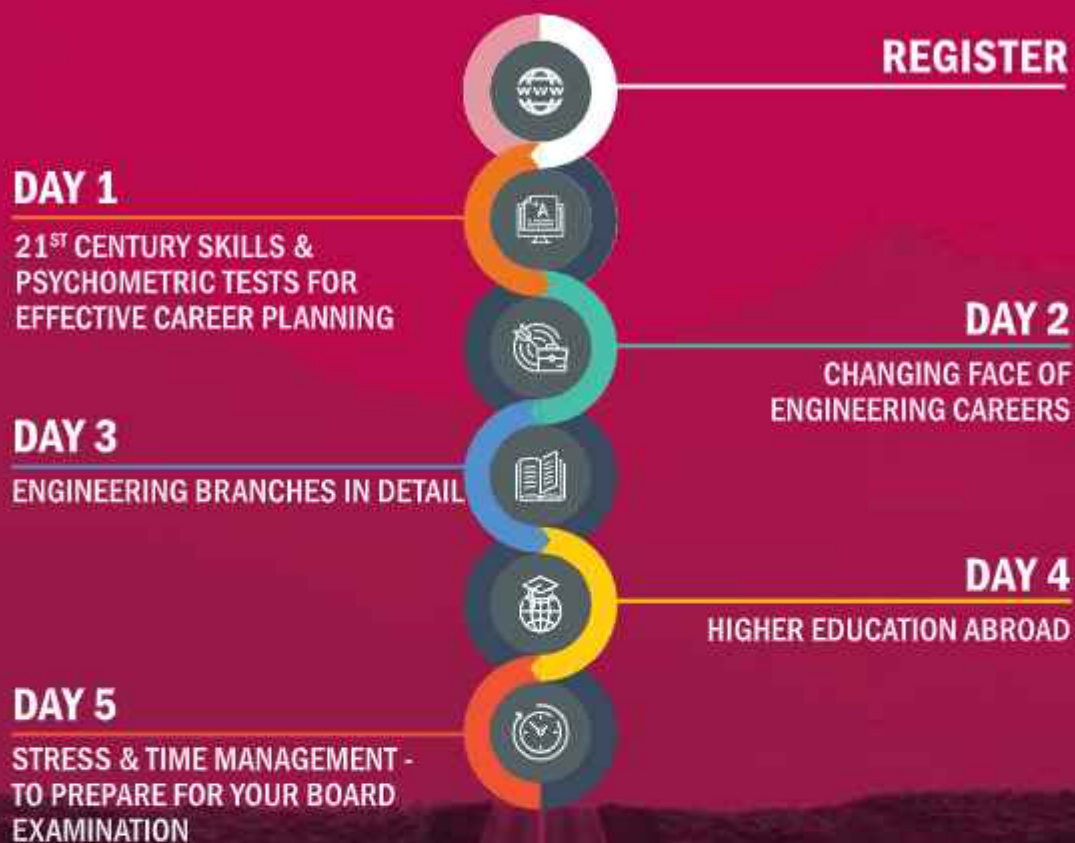
Discover your path today

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



School of
Engineering
COIMBATORE

Amrita Vishwa Vidyapeetham - Coimbatore Campus
Amritanagar, Coimbatore 641 112, Tamil Nadu, India

 amrita.edu  btech@amrita.edu

For admissions: www.amrita.edu/admissions