



Established as per the section 2(f) of the UGC Act, 1956, Approved by AICTE, COA & BCI, New Delhi



REVA
UNIVERSITY

Bengaluru, India

LEARNING
UNLIMITED...



2022

ELECTRONICS AND
COMMUNICATION
ENGINEERING

#REVAolutionary Learning



All that man has to do is to take care of three things;
good thought, good word, good deed.

- Swami Vivekananda



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About REVA University

Building Dreams. Designing Future.

Established under the REVA University Act 2012, the University is recognised by the University Grants Commission (UGC) and is approved by the AICTE (All India Council for Technical Education). REVA University prides itself in contributing to every student's holistic development. The University currently offers 49 full-time Under Graduate Programmes, 28 full-time Post Graduate programmes, 2 part-time Post Graduate programmes. The University offers programmes in Engineering, Architecture, Science and Technology, Commerce, Management Studies, Law, Arts & Humanities, and Performing Arts. Courses are offered in Certificate/Diploma and Post Graduate Diploma too. REVA University facilitates research leading to a Doctoral Degree in all disciplines.

The programmes offered by REVA University are well-planned and designed based on methodical analysis and research with emphasis on knowledge assimilation, practical applications, hands-on training, global and industrial relevance, and their social significance. REVA University believes in preparing students through the Choice Based Credit System (CBCS) and Continuous Assessment and Grading Pattern (CAGP) of education.

The CBCS & CAGP pattern of education has been introduced in all programmes to enable students to opt for subjects of their choice in addition to the core subjects of study and to train them with vocational skills. This methodology helps students earn more credits and facilitates students to pursue additional Proficiency Certificates and Diplomas.

The faculty is an active part of the academic dialogue. Teachers and instructors with illustrious academic experience are the architects of the meticulously designed curriculum and program modules offered at REVA University. They come with industrial exposure and experience that often translates through their teaching, thus bridging the gap between the industry and academia.

REVA University has an updated, ever-evolving collection of books, journals, and digital content in the library with the latest IT infrastructure that ensures students have information at their disposal.

The lush green campus, state-of-the-art laboratories, custom-designed classrooms to enable seamless learning, and world-class indoor and outdoor sports facilities make REVA University the most preferred university among students and MNCs that visit the campus for placements.

Building
DREAMS
 Designing Future



FROM THE CHANCELLOR'S DESK



Dear game changers,

Welcome to REVA University!

I like to address the student populace as game-changers because we, at REVA, believe in the phenomenal power of the youth, and their powerful ideas. As students, you hold the power to transform society and change the paradigm of every development – economic, social, and cultural. Gen Z is born with immense capabilities that can change the face of a nation, and we are proud to cultivate, nurture, and discipline such game-changers at REVA University. The University is driven by the founding philosophy that 'Knowledge is Power', and we are striving to build a community of perpetual learners who can achieve everything they aspire. To build such a community, learning should be continuous, and cross all borders. Hence, REVA University has adopted the mission to make learning unlimited. Our driving principle of 'Learning Unlimited' is empowered with the adoption of technology.

As we have seen in the recent past, technology in education is not just an enabler, but a necessary medium, and the crisis in the Education sector during the pandemic helped us all understand the importance of virtual learning. Fortunately at REVA, we had adopted a digital-first approach towards educating our students, and our preparedness helped us smoothly transition towards online learning.

The pandemic was also a reminder that Blended Learning is the way forward and is the biggest enabler of seamless learning. Our core vision remains to change the way students learn from traditional learning methodologies and we are happy to adapt and adopt technological changes.

The ecosystem at REVA University is not only tech-centered but is developed in such a way that it contributes to the overall development of a student. Our exclusive executive programme RACE (REVA Academy for Corporate Excellence) has been ranked 2nd in India for MBA in Business Analytics, REVA NEST- the Start-Up Incubator, are all designed to make our students ready for the corporate world.

In a step ahead, our UIIC (University-Industry Interaction Centre) programme allows students to interact and learn from the industry leaders. The UIIC is an exclusive programme of the University and a key enabler in bridging the gap between academic life and the corporate world.

Going forward, we aim to make all the disciplines at par with our exclusive programmes, and REVA aspires to be a coveted multi-disciplinary institution.

True leaders and game-changers are made when a University takes it on its shoulders to mould personalities and gives life to the ideas of its students. With the dedicated efforts of our eminent faculty members, I am certain REVA University students will be guided and mentored in such a way that they will be the game-changers of tomorrow.

Dr. P. Shyama Raju
Chancellor, REVA University

SCHOOL OF ELECTRONICS AND COMMUNICATION ENGINEERING

The School of Electronics and Communication Engineering at REVA is envisioned to be a leading centre of higher learning with academic excellence in the field of electronics and communication engineering blended by research and innovation in tune with changing technological and cultural challenges supported with leadership qualities, ethical and moral values.

The school's mission is to establish a unique learning environment to enable the students to face the challenges in the field of Electronics and Communication Engineering and explore multidisciplinary subjects which serve the societal requirements.

The school also has a mission to create state-of-the-art laboratories, resources and exposure to the current industry trends to enable students to develop skills for solving complex technological problems of current times and also provide a framework for promoting collaborative and multidisciplinary activities.

The School of ECE is working towards the establishment of Centers of Excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students. The School offers ethical and moral value-based education by promoting activities that inculcate leadership qualities, patriotism and set high benchmarks to serve society.

OUR ADVISORY BOARD

Sl. No.	Name	Designation & Organisation	Advisor
1	Dr. Kamesh Namuduri	Professor, University of North Texas (UNT), USA	International Advisor
2	Dr. Pascal Lorenz	Professor, University of Haute Alsace (UHA), France	International Advisor
3	Dr Alvaro Rocha	Professor of Information Systems at the University of Lisbon, Portugal	International Advisor
4	Mr. Arun Shankar K	Chief Manager, Continental	Industry Advisor
5	Mr. Ravikiran Annaswamy	CEO and Managing Director, Numocity Technologies & ExeCom-VP – Membership, Marketing, & Communications, IEEE TEMS Board of Governors	Industry Advisor
6	Mr. Vinod Chippalakatti	President, Centum Electronics Ltd, Bangalore	Industry Advisor
7	Dr G. T. Raju	Principal, SJCIT, Chikkaballapur	Academic Advisor
8	Dr. Sudeendra Koushik	Co-founder Prasu, Chair, IEEE TEMS India, & ExeCom-VP Conferences, IEEE TEMS Board of Governors	Industry Advisor
9	Dr. T. Srinivas	Professor - Electrical Communication Engineering, Indian Institute of Science	Research & Academic Advisor
10	Dr. Dantuluri Sita Rama Raju	Professor of Emeritus / Research & Projects, School of ECE, REVA University	In house Advisor

Highlights of School in Numbers - Ranking, placements, clubs, International Collaborations

Ranking – NIRF within 250 to 300

Number of PhD's- 33

Placement for

- 2019- 100%
- 2020- 100%
- 2021- 100%
- 2022- Ongoing

Patents Published- 90

Premier Conferences Organized-

- IEEE ICAECC 2014
- IEEE ICAECC 2018
- IEEE ICAECC 2020
- IEEE TEMSMET 2020

R&D Labs-Signal Processing (SP) R&D Lab

- Wireless Communications (WC) R&D Lab
- Texas Instruments Embedded (TIE) R&D Lab
- Satellite Technology and Space Exploration (STSE) R&D Lab
- Internet of Things (IoT) R&D Lab
- Artificial Intelligence and Machine Learning (AI&ML) R&D Lab
- Advanced Vehicular Technology and Communications (AVTC) R&D Lab

COEs

- Centre of Excellence in Microelectronics & IoT (collaboration with powered by NXP Semiconductors)
- Centre of Excellence in Robotics (collaboration with IIT Bombay e-Yantra)
- Center of Excellence in Defense and Aerospace Electronics in Collaboration with CENTUM Electronics India.
- Center of Electronics in Automotive Electronics in Collaboration with SPARK MINDA SMIT
- Center of Electronics in Microelectronics in collaboration with Continental- Microelectronics Division

Industry mentored projects (NXP Semiconductors/ CENTUM electronics/ SPARK MINDA)

- DSP performance benchmarking for Cortex-M7 vs PULPino
- FPGA Prototyping of PULPissimo platform
- RISC-V based virtual platform simulations in OVP/ Imperas
- FPGA Based Display Solutions for Automobiles

Technical support to industry requirements: Surveys and technical solutions

- Cadence
- Matlab
- NI Labview
- Xilinx
- Xilinx –Vivado
- LT – SPICE
- HFSS
- QualNet Network Simulator
- Imperas
- Multisim
- NVIDIA
- NS3
- Analog Discovery
- Sirena Robotics
- PROTEUS

Corporate Training from ECE faculties to engineers across various industries School Clubs

- HAM Club
- Dots & Pixels Club
- Robotics Club
- Coders Club
- ECE Challengers Sports Club
- IETE Student Forum(ISF)
- IEEE Club



USPs of the programme

B. Tech. Electronics and Communication Engineering

The B. Tech. programme in Electronics and Communication Engineering (B. Tech (ECE)) is designed to give greater emphasis on core Electronics and Communication Engineering with the flexibility to explore various areas like circuits and devices, signal processing, VLSI and Embedded systems, control engineering, communication engineering, AI/ML and programming.

As B. Tech ECE encompasses wide areas of technologies required by various industry sectors, the graduates have opportunities in multiple core and IT sectors such as defense, space applications, healthcare, agriculture technologies, transportation, telecommunication, industry automation, smart technologies, and major IT solution industries.

B. Tech. Electronics and Computer Engineering

B. Tech in Robotics and Automation interdisciplinary program by the School of ECE focuses on advances in artificial intelligence and sensor technologies that allow robots to cope with a far greater degree of task-to-task variability, to adapt robotic actions in response to changes in their environment which create opportunities for automation in areas such as agriculture, industrial automation, healthcare, transportation and defense sectors and Simultaneous Localization and Mapping (SLAM) integrated by Computer Vision technologies that are the future industry trends most of them achieved through robotics and automation. A robotics engineer has good job opportunities to work in industry on designing robotic models, assembling and testing and maintaining the machine and the software blended with AI and ML for smooth control and operation. Robotic engineers are responsible for planning, testing, and building robots for all type of jobs from simple to complex environments. This interdisciplinary program has an exciting career both in hardware and software industries that has applications in various industry sectors such as defense, aerospace, agriculture, healthcare, transportation and all sorts of automation applications.

B. Tech. Robotics and Automation

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Programmes Offered by the school:

The School of Electronics and Communication Engineering offers B Tech, M. Tech. and Research programs.

- B. Tech. in Electronics and Communication Engineering (ECE)
- B. Tech. in Electronics and Computer Engineering (ECM)
- B. Tech in Robotics and Automation (R&A)
- M. Tech (VLSI and Embedded Systems) – Full Time and Part Time

Eligibility Criteria

B.Tech. in Electronics & Communication Engineering, B.Tech. in Electronics and Computer Engineering , B Tech Robotics and Automation (Regular)

Pass in PUC /10+2 examination with Physics and Mathematics as compulsory subjects along with Chemistry/Biotechnology/Biology/ Computer Science/Electronics/ Technical vocational subjects as one of the optional subjects. Candidates should obtain at least 45% marks (40% in case of candidate belonging to SC/ ST category) in aggregate in the above subjects from any board recognized by the State Governments / Central Government / Union Territories or any other qualification recognized as equivalent thereto. Good score in REVA Common Entrance Test (REVA CET)/JEE (Main)/JEE (Advanced)/Karnataka CET/COMED-K/ Uni-GAUGE or any other equivalent examination conducted by a recognized institute/agency.

B.Tech. in Electronics & Communication Engineering, B.Tech. in Electronics and Computer Engineering (Lateral Entry)

Pass in Diploma examination from an AICTE approved institution with at least 45% marks (40% in case of candidates belonging to SC/ST category) in the respective branch of Engineering/ Technology. Pass in B.Sc. Degree from a recognized University as per UGC norms, with at least 45% marks (40% in case of candidates belonging to SC/ST category) in the respective branch of Engineering/Technology and passed XII standard with mathematics as one of the subjects. Provided, candidates belong to B.Sc. stream shall pass the subjects of Engineering Graphics/Engineering Drawing and Engineering mathematics of the first-year engineering programme along with the second year subjects.

M.Tech. in VLSI and Embedded Systems

BE/B Tech in ECE /TE /EEE /CSE /ISE/ Instrumentation Technology/ Medical Electronics/M. Sc in Electronics with a minimum of 50% (45% in case of SC/ ST) marks in aggregate of any recognized University/ Institution or AMIE or any other qualification recognized as equivalent there to

USPs

1. Industry sponsored labs - NXP Semiconductors, CENTUM Electronics Pvt. Ltd., Spark Minda
2. 100% Placements
3. Funded projects from ISRO, NRB, VGST, ATAL Incubation, I-Tech
4. Faculty with PhD- 53%
5. Quality indexed research publications
6. Good number of citations and h-index
7. Student publications - 100% final year students published papers
8. Patents published: 90
9. More than 5% students go for higher studies
10. Options for Abroad Internships and Higher Studies
11. Organized premiere IEEE Conferences - ICAECC 2014, ICAECC ICAECC 2020, IEEE TEMSMET 2020
12. Products developed: Thermal scanner, Touchless Faucet, Fall detector, Low cost power bank, IoT development kit

Alumni

1. Alumni strength of 3076.
2. Alumni working in NASA, Google, Apple, Honeywell, Qualcomm, ISRO, BEL, NOKIA, Siemens, TCS, IBM, Infosys, Global Foundries, Wipro, Indian Army, Indian Airforce and many other reputed Organizations across the globe.
3. German Alumni Chapter is actively participating in the activities of the school, recently an Alumni interaction was held to final year students regarding Study and Life in Germany.
4. Alumni are involved in the BoS for the curriculum design and approval.
5. Few notable alumni are also involved as Advisors in the school.
6. 45+ Alumni are engaged as industry mentors for the academic projects being done by current students.
7. Many Alumni have delivered Technical talks/webinars to the current students and faculty members.
8. One Alumni has led the Indian Airforce Contingency during the recent Republic Day Parade – 2021, held in Delhi.
9. Many of the alumni have pursued and are pursuing their higher studies in reputed organisations in the country and abroad.



Life at REVA



LIBRARY AND INFORMATION CENTRE

Browse through lakhs of books, e-books, research publications, educational journals and magazines



OPEN AIR THEATRE

Always bring a variety of Cultural programmes by different groups of students



STUDENT CLUBS

Literary Club, Science Clubs, Sports Club, Robotics Centre, Eco Club, Quiz Club, Dance and Drama Club



NCC, NSS & VOLUNTARY WORK

Regular social activities like medical camps, blood donation camps in rural areas held to work towards the overall benefit of the society



HOSTELS

4,000-bed capacity hostel that's well-ventilated, hygienic and serves fresh cooked meals



ONLINE LEARNING/ DIGITAL CLASSROOMS

Well-equipped classrooms with modern gadgets like projectors, tabs



GREEN CAMPUS WITH OPEN AIR AMPHITHEATRE

A lush green area that allows students to study, socialise and enjoy nature



GUEST HOUSE

Residential facility for the benefit of parents and visitors travelling from outstation



FOOD COURT

International food chains have stalls at the Food Court that serve Pan Asian, Asian, North Indian, South Indian, among many other cuisines



BRAND STORE

Variety of international brand merchandise, apparels, gift articles, and a wide range of stationery available on the campus



AUDITORIUM AND SEMINAR HALLS

Large auditorium with 1000-seater capacity, along with adequate number of seminar halls to facilitate co-curricular activities



TRANSPORTATION

Routes through all parts of Bengaluru city



SPORTS

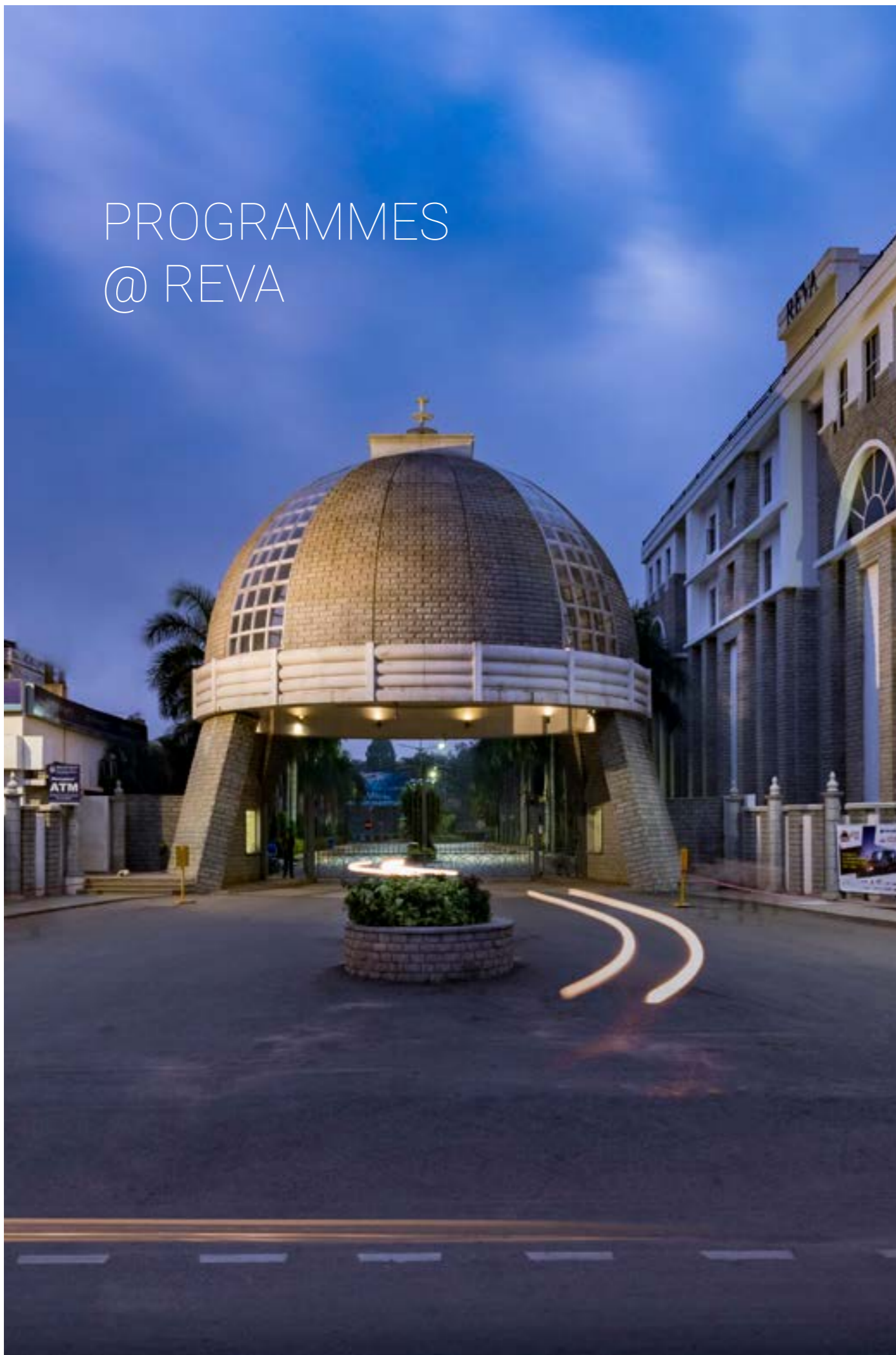
Special focus on Sports. More than 9 teams representing REVA University at state, national and international tournaments



GAZEBOS

An open area for students of certain courses to learn, practice and excel amid open classrooms

PROGRAMMES @ REVA



- B. Tech. - Computer Science & Engineering
- B.Tech. - Artificial Intelligence & Data Science
- M.Tech. - Computer Science & Engineering (Full Time)
- M.Tech. - Computer Science & Engineering (Part Time)
- B.Tech. - Computer Science & Information Technology
- B. Tech Computer Science & Systems Engineering
- B.Tech. - Information Science & Engineering
- B. Tech. - Computer Science & Engineering (Artificial Intelligence & Machine Learning)
- M.Tech. - Cyber Security
- M.Tech. - Artificial Intelligence
- B.Tech. - Electronics & Communication Engineering
- B.Tech. - Electronics & Computer Engineering
- B.Tech. - Robotics & Automation
- M.Tech. - VLSI & Embedded Systems (Full Time)
- M.Tech. - VLSI & Embedded Systems (Part Time)
- B.Tech. - Civil Engineering
- M.Tech. - Computer Aided Structural Engineering
- M.Tech. - Transportation Engineering & Management
- M.Tech. - Construction Technology & Management
- B.Tech. - Mechanical Engineering
- B.Tech. - Mechatronics Engineering
- M.Tech. - Machine Design
- B.Tech. - Electrical & Electronics Engineering
- B.Tech. - Electrical & Computer Engineering
- M.Tech. - Power & Energy Systems
- B. Tech Bioelectronics Engineering
- M Tech DCN
- B.Sc. - Interior Design
- B. Arch
- M. Arch
- BA LL B (Hons)
- BBA LL B (Hons.)
- LL M (Business & Corporate law)
- LL M (Criminal law)
- B.Com (Industry Integrated)
- B.Com - Hons (Accounting & Taxation)
- B.Com - Hons (Accounting & Statistics)
- B.Com - Hons (Banking & Finance)
- B.Com - Hons (Economics & Finance)
- M.Com
- BBA (Industry Integrated)
- BBA - Hons (Enterprenuership)
- BBA - Hons (Talent Management)
- BBA - Hons (Marketing)
- BBA - Hons (Banking & Finance)
- BBA - Hons (Innovation & Enterprenuership)
- BBA - Hons (Business Analytics)
- BBA - Hons (Strategy & Leadership)
- BBA - Hons (Health Care Management)
- MBA
- BCA
- B.Sc. Honors (CC & Big Data)
- B.Sc. (Multimedia & Animation)
- B.Sc. (Cyber Security)
- MCA
- M.Sc. - Data Science
- B.Sc. - Biotechnology, Biochemistry & Genetics
- B.Sc. - Bioinformatics - Biology, Mathematics & Computer Science
- B.Sc. - Microbiology, Chemistry & Genetics
- B.Sc. - Mathematics, Statistics & Computer Science
- B.Sc. - Physics, Chemistry & Mathematics
- B.Sc. - Physics, Mathematics & Computer Science
- M.Sc. - Biotechnology
- M.Sc. - Chemistry
- M.Sc. - Mathematics
- M.Sc. - Physics
- M.Sc. - Microbial Technology
- M.Sc. - Bioinformatics
- B.Sc. - Medical Laboratory Technology
- B.Sc. - Medical Radiology & Diagnostic Imaging
- B.Sc. - Nutrition & Dietetics
- B.Sc.- Sports Science
- BPT
- M.Sc. - Biochemistry
- BA - Journalism, English & Psychology
- BA - Political Science, Economics & Journalism
- BA - Journalism & Mass Communication
- MA - English
- MA - Journalism & Communication
- M.Sc. - Psychology
- Certificate - Bharatnatyam
- Certificate - Kuchipudi
- Certificate - Kathak
- Certificate - Mohiniyatam
- Certificate - Odissi
- Diploma - Bharatnatyam
- Diploma - Kuchipudi
- Diploma - Kathak
- Diploma - Mohiniyattam
- Diploma - Odissi
- Diploma - Hindustani Vocals
- Diploma - Carnatic Vocals
- Diploma - Indology
- BA - Performing Arts, English & Psychology
- MPA - Bharatanatyam
- MPA - Kuchipudi
- MPA - Kathak
- MPA - Mohiniyattam
- MPA - Odissi

About REVA Alumni

REVA University has a strong alumni network which consists of more than 35000 alumni which is a part of our global alumni community. REVA University encourages the alumni to stay connected through various activities, technical talks, opportunity to establish their ventures etc and provides overall support and benefits for life. That may be through providing alumni with career support, helping them to reconnect with old friends, access to a wide network of fellow alumni and a range of exciting events.





REVA
UNIVERSITY

Bengaluru, India

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 /REVAUniversity

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