



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

ELECTRICAL AND
ELECTRONICS
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 ELECTRICAL AND ELECTRONICS ENGINEERING

The School of Electrical and Electronics Engineering under REVA University is established in the year 2014 with a mission to mould students to become skilled, ethical and responsible engineers for the betterment of society. The School of Electrical & Electronics Engineering is driven by two entities i.e., Passion and Innovation. Here we aim and strive to foster potent and competent Electrical Engineers with electronics & computer soft skills who are not only capable of addressing real life problems in the field of electrical engineering but who are also willing to learn and upgrade themselves with emerging technologies.

At our school, young intellects are trained thoroughly in the domains of Electrical Machines, Power and Energy Systems, Smart grid, SCADA, Power Electronics, Renewable energy systems, Electric vehicle, Energy storage, Power quality, Control Engineering and other allied fields. The school offers two exciting and well-structured Undergraduate programmes – B. Tech in Electrical & Electronics Engineering and B. Tech in Electrical & Computer Engineering; and one Post Graduate program M. Tech in Power & Energy Systems. The School also provides the PhD program in the field of Power electronics, Power and Energy systems, Integration of Renewable Energy Systems to grid, Automation, Electric Vehicle, Energy Storage Systems, Energy Conservation, Power Quality, Artificial Intelligence in Power System, etc.,.

The School has the most advanced and state – of – the – art laboratories and research facilities to carry out the projects by the students. The school boasts of a rich research ethos spearheaded by well-seasoned and vastly experienced professors along with highly qualified and dedicated teaching and research staff. Currently the school has a research centre which is proactive throughout the year. The school is actively involved in converting the ideas into projects and final convert into product with good quality & low cost thereby to serve the society. The research centre of the school proved its mettle by grabbing funding from DST, VGST, VTU, etc., to carry out research wok. The school hosts an annual grand tech exhibition – “bizEE bEE” where all the prospective engineering students of the school exhibit their innovations and ideas which are aimed at building a sustainable and smart nation.

The students are provided with up to date knowledge as a part of their regular curriculum for cracking the competitive exams like GATE, GRE, IES, CAT, etc. Apart from the strong technical training the students receive, they are also made to undergo rigorous training programs to induce and polish their communication and team management skills, because here at REVA and School of EEE we aspire to create the next generation Electrical Engineers who possess the best of ethics, professionalism and commitment



ADVISORY BOARD

Sl. No.	Name	Designation	Contact Details
1	Dr. Adrian Inoinovici	Fellow IEEE, Director, Power Electronics and Green Energy Centre, Sun-Yat-Sen University, China.	adrian@hit.ac.il
2	Dr. Danny Sutanto	Professor of Power Engineering, School of Electrical, Computer and Telecommunications Engineering, University of Wollongong, Australia	soetanto@uow.edu.au
3	Dr. K.W. Eric Cheng	Professor of Power Electronics research Centre, The Hong Kong Polytechnic University, Hong Kong	eeecheng@polyu.edu.hk
4	Dr. Ramesh C. Bansal	Professor, Electrical Eng. Department Building M9, Room 210 College of Engineering, University of Sharjah	rbansal@sharjah.ac.ae; rcbansal@ieee.org; rcbansal@gmail.com
5	Dr. Venkataramana Ajarapu	Professor of Electrical Engineering, Department of Electrical and Computer Engineering, Iowa State University, College of Engineering, 4100 Marston Hall, 533 Morrill Road, Ames, IA 50011-2103	vajarap@iastate.edu
6	Dr. Raja Ayyanar	Professor, School of Electrical, Computer and Energy Engineering, Arizona State University	rayyanar@asu.edu
7	Dr. S.N. Singh	Former VC, Gautam Buddha University & Professor, IIT, Kanpur	snsingh93@gmail.com
8	Dr. Z. H. Sholapurwala	Managing Director, Zeonics Systech Defence & Aerospace Engineers Pvt. Ltd.	zeonicssystem@india.com
9	Mr. K. N. Singh	Manager-Marketing - Special Applications , EFD Induction Private Limited	skn@efdgroup.net +91 98456 05871

The School has an active participation with:

- University of California, Riverside, USA*
- IQS School of Management – Universitat Ramon Llull, Barcelona, Spain
- Curtin University, Australia*
- University of Strathclyde, Glasgow, UK
- RWTH Aachen University, Germany
- Coventry University



ELIGIBILITY CRITERIA

Eligibility (Regular B.Tech EEE & EECE)

Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained at least 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together, of any Board recognised by the respective State Governments / Central Government / Union Territories or any other qualification recognised as equivalent there to. Good score in REVA University Common Entrance Test (REVA CET) / (JEE(MAIN)/JEE(ADVANCED) / Karnataka CET / COMED-K / Uni-GAUGE or any other equivalent examination conducted by recognised Institute / Agency.

Eligibility (B.Tech 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 recognised 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.

Eligibility (M.Tech PES)

BE / B Tech in EE / EEE / ECE / CSE / MS / M.Sc. IN Mathematics/ Physics/Electronics/ Information Technology or Information Science with a minimum of 50% (45% in case of SC/ST) marks in aggregate of any recognised University / Institution or AMIE or any other qualification recognised as equivalent there to.

Programmes Offered	Duration
B. Tech. in Electrical & Electronics Engineering	8 Semesters
B. Tech in Electrical & Computer Engineering	8 Semesters
M. Tech. in Power & Energy Systems	4 Semesters
Ph.D in Electrical & Electronics Engineering	3- 6 Years*

Career Opportunities

On successful completion of the programme, the graduates of School of Electrical and Electronics Engineering will be able to work in the field of:

- **Power Generation** - To work under different types of conventional and renewable energy power generating plants.
- **Power Sector** – To estimate transmission & distribution loss, to optimise the location of reactive power compensation to strengthen the distribution system, to carry out study on demand side management (DSM) to implement measures to keep the system secure, to enhance the operational performance of electric power generation, transmission & distribution equipment's, to maintain quality of power, to mitigate harmonics and carryout energy audits.
- **Renewable Energy Sources** - To work in the field of RES to harness power from renewable sources using power electronics devices, to solve the issues related to integration of RES with grid, to develop and use various algorithms for enhanced power generation by RES, to enhance the capability of O&M of RES.
- **Electric and Hybrid Vehicles** - To learn the basic configurations of drive Trains, Battery Management System of EV's and various charging characteristics of battery as required by the industry.
- **Smart Grid** – Delivering different solutions in the scope of automation & smart grids, good understanding of overall AMI Solution i.e. Meters, communication and control center solution. Shall be able to translate it to business needs and effective outcome can be achieved.
- **Energy Automation:** To develop PLC and HMI software programs which is used in power line communication.
- **C++ Developer** responsible for building Client server application, Design, Debug , code, and maintain efficient, reusable, and reliable C++ code to develop application server.

Why REVA?

- Industry oriented curriculum prepared by industry experts and best academicians across the world, meeting 80% of industry requirements.
- State-of-the-art infrastructure for electrical labs, dynamic classrooms.
- Project based learning implanted in teaching.
- Best projects get converted to patents, copyright and patents grant.
- Certified skill development course offerings every semester
- MOOC courses offerings from Coursera, Udemy and other education aggregators.
- Free access to digital library (IEEE and Springer) journal papers
- Personalised mentoring system to individual students.
- Student clubs to impart specialised skills based on current trends and keeping student's passion high for learning.
- Digital software tools like MS Teams, ERP, Moodle, Tab based examinations, paperless assignments.

Most Prominent Companies for Placements:

Government Sector

NTPC, PGCIL, HPCL, GIAL, BHEL, KPTCL, KPCL, BESCOM, APGENCO

Private Sector

PRDC, ABB, L&T, SIEMENS, KIA MOTORS, TATA Motors, Schneider Electric

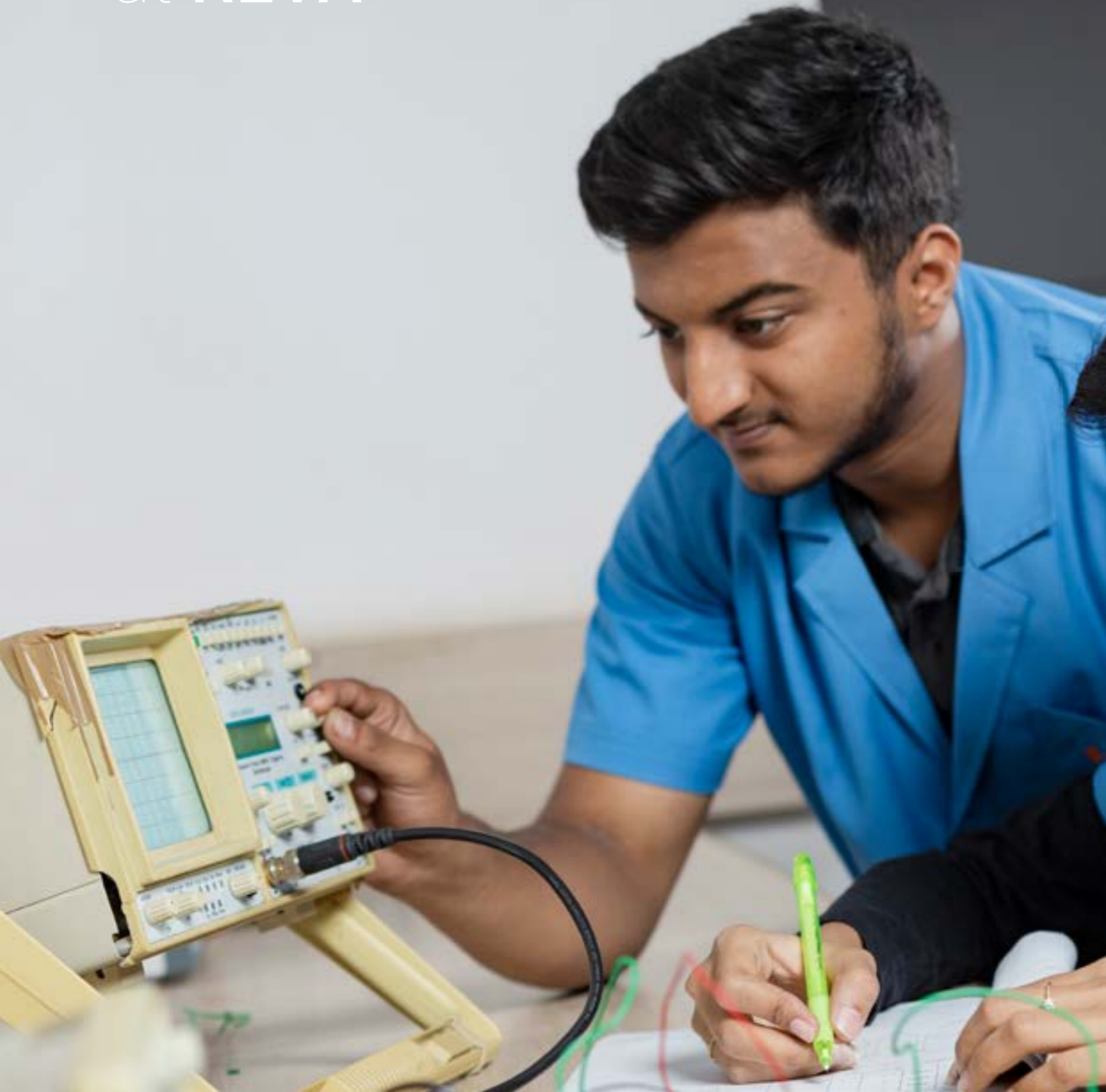
IT Sector

TCS, IBM, DXC Technologies, DELL, HP, SAP, CAPGEMINI, INFOSYS, ACCENTURE WIPRO

Entrepreneurship

Self Employed, New Ventures, Own Enterprise, Social Entrepreneurship

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

Ph: +91 90211 90211 / +91 80 4696 6966
email: admissions@reva.edu.in

Office of Admissions : REVA University, Rukmini Knowledge
Park, Kattigenahalli, Yelahanka, Bengaluru - 560064.

 /REVAUniversity

reva.edu.in