REVA
UNIVERSITY
Bengaluru, India

LEARNING
UNLIMITED...

2022

CIVIL
ENGINEERING

#REVAlutionary 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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Building
DREAMS
Designing Future

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.

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 CIVIL ENGINEERING

The School of Civil Engineering is headed by highly experienced Professors and is supported by well qualified faculty members. The school has state-of-art class rooms and well equipped laboratories. It offers B.Tech and M.Tech programmes in various specialised streams. The school also has research programme leading to doctoral degree. The curriculum of both graduate and post graduate degree programmes have been designed to bridge the gap between industry – academia and hence they are industry application oriented. The B.Tech programme aims to prepare human resources to play a leading role in the competitive construction field and excel in their endeavours. The Master's Degree programmes focus on research and design in the core programme's like Computer Aided Structural Engineering, Transportation Engineering & Construction Technology and Management to supplement and create a sustainable world and to enhance the global quality of life by adopting enhanced techniques of design and application. This is reflected in various core subjects offered within the programme. Currently Civil Engineering teaching was limited to planning, analysis, design and execution of different types of infrastructure like buildings, roads, bridges, dams and power plants. However, due to increase of technological sophistication and demand for higher living standards geared up by economic growth and concerns about environmental impact have changed the scope of Civil Engineering. The challenges of today's Civil Engineering infrastructure are much more complex and interdependencies between resources.

Even though there are a large number of institutions in the country which are producing Civil Engineers, there is acute shortage of quality Civil Engineers. REVA University would like to offer Civil Engineering Programme to produce quality engineers who are effective and efficient in problem solving and providing economical and sustainable infrastructural solutions.

OUR ADVISORY BOARD

Sl. No.	Name	Designation
1	Dr. G.L. Sivakumar	Professor, Department of Civil Engineering, India Institute of Science (IISc) Bangalore
2	Dr. A. Veeraraghavan	Professor, Department of Civil Engineering, IIT Madras, Room No: #234, Building Sciences Block, IIT Madras, Chennai-600036.
3	Dr. V. Ramachandra	Zonal Head, Technical Services, Ultra Tech Cement Ltd., Industry House, 6th floor, #45, Race Course Road, Bangalore 560 001
4	Dr. Sriram Kalaga	Emeritus Professor, School of Civil Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Bengaluru
5	Dr. Srinivas Voggu	Scientist, CSIR, Taramani, Chennai
6	Dr. K Srinivasa Raju	Associate Professor, Anna University, Chennai
7	Dr. Jagadeesh Vengala	Dean, Siddartha Institute of technology, Vijayawada, Andhra Pradesh
8	Dr. Prachand Man Pradhan	Associate Professor, Department of Civil Engineering, Kathmandu University
9	Dr. Priyadarshini Das	Doctoral researcher, Centre for Smart Modern Construction (c4SMC), Western Sydney University

In a Nutshell

Professional Bodies (Student Chapter's)

1. Indian Concrete Institute
2. Indian Water Works Association
3. Indian Geotechnical Society

Student Clubs:

School of Civil Engineering at REVA University believes in Holistic overall development of students through value based student clubs as follows:
1. Association of Civil Engineers
2. Students welfare Club
3. Smt. Rukmini Shyama Raju Club
4. Prathibha Anveshna Club
5. Parisara Club
6. Women's Empowher Club
7. REVALITE Club
8. Adventure and Health Club
9. Sir. Mokshagundam Visvesvaraya Club
10. Alumni Club
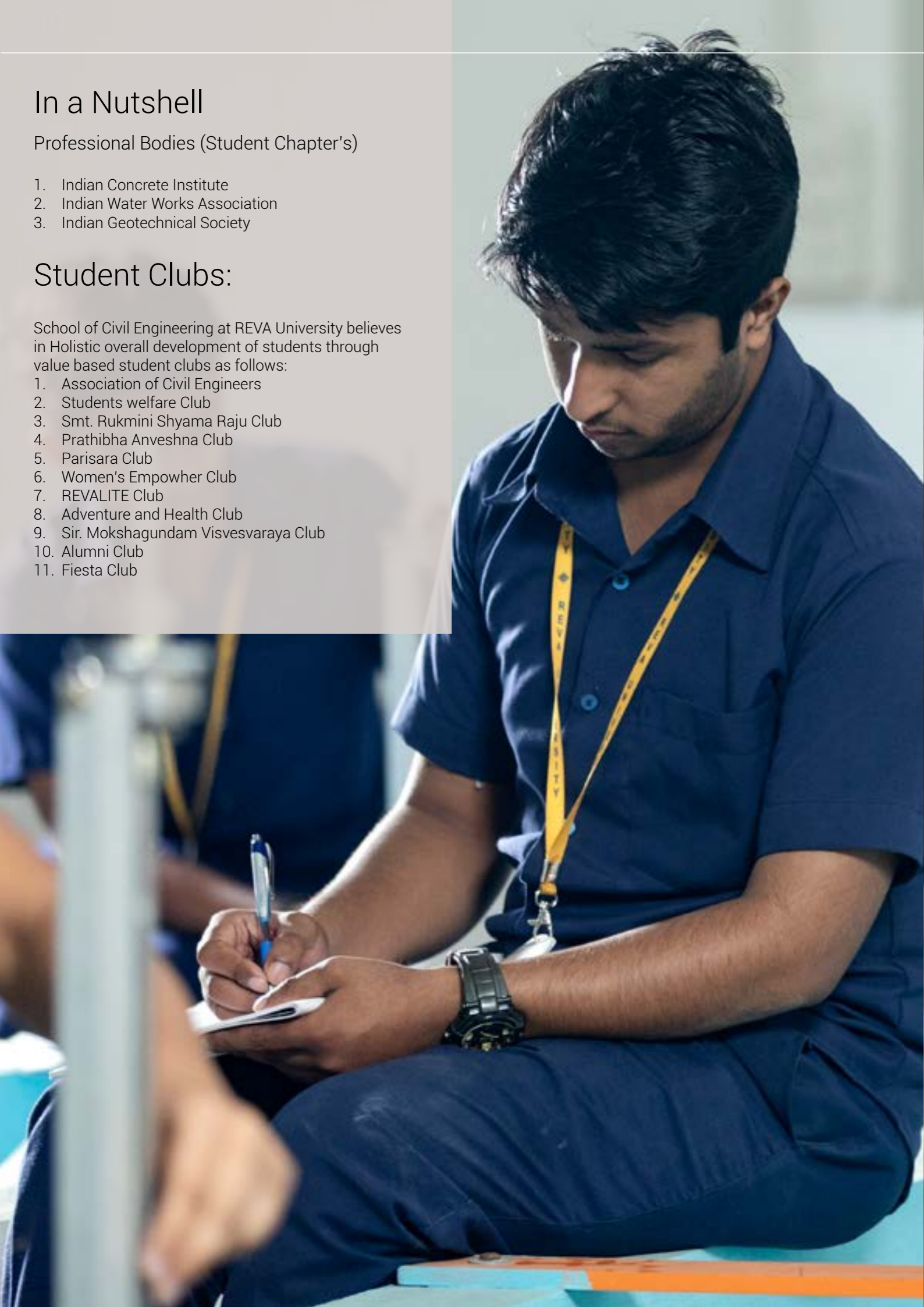11. Fiesta Club

ABOUT B.Tech in CIVIL ENGINEERING

B.Tech in Civil Engineering is designed keeping in view the current situation and possible future developments, both at national and global levels. This course is designed to give greater emphasis on core Civil Engineering. There are ample number of courses providing knowledge in specialized areas of Structural Engineering, Water Resources Engineering, Transportation Engineering, Geotechnical Engineering, Surveying and Environmental Engineering etc. facilitating students to choose specialized areas of their interest. Adequate attention is given to provide students the basic concepts.

Civil engineering is one of the earliest to start among the core subjects. The structure of the course has undergone a face-lift with the introduction of subjects from latest advanced subjects like Town Planning, Urban Transport Planning, Prestressed & Precast Structures, Solid Waste Management, Industrial Waste Water Treatment etc. Thus, the Civil Engineering stream is designed to provide you with several options to choose from for your later years. The Indian government having plans to adopt make in India concept in this major is infrastructure development. Hence, Infrastructure development sector offers many job opportunities for well-qualified graduates.

If you are interested in any one of the following, then Civil Engineering is the option you should consider.

- **Transportation Engineering**- to resolve the current traffic problems and plan for the future requirements of the society.
- **Environmental Engineering**- to assure and supply the quality drinking water for people and for industries. To protect environment form the air pollution, solid water management and waste water disposal.
- **Geotechnical Engineering**- To study and testing of soils to improve the safe bearing capacity of the soils so that the structure will be safe

The benefits of choosing Civil Engineering are:

- Flexibility to choose various fields upon graduation.
- Opportunity to work on live problems.
- Opportunity to work on latest technologies.
- Opportunity for designers & planner to plan & design live projects.

FEATURES OF THE PROGRAMMES

1 **LIVE PROJECT-BASED LEARNING**
Students will get hands-on learning experience from learning and working in projects taken up by DivyaSree Developers Pvt. Ltd., the parent company and other reputed companies in and around Bangalore.

2 **TOP RANKED PROGRAMMES**
Paves way to pursue PG programmes in most sought after fields like Transport Engineering Management, Computer Aided Structural Engineering, Construction Technology and management among various others

3 **INDUSTRY CERTFIED TECHNOLOGY CERTIFICATIONS**
Certification on Total station (Advanced Surveying), AUTOCAD with civil 3D, STAADPRO, Primavera to name few are part of curriculum.

4 **INNOVATIVE INDUSTRY RELEVANT COURSES**
Based on market study and industry experts' recommendations, courses that have immense job opportunities in the future are offered like Drafting, planning, design and execution as per National Education Policy 2020 (NEP 2020)

5 **INTERNSHIP AND JOB PLACEMENTS**
The School has strong support of Management and DivyaSree Developers. School has also signed MoU's with reputed MNCs, private firms in India and abroad.

6 **INDUSTRY VISITS/ FIELD TRIPS**
Students experience weekly project visits, field visits, field surveys, education tours to enrich their practical knowledge.

7 **IT EXPOSURE**
Students are privileged to obtain blended education through soft-core subjects to explore the opportunities in IT field

Eligibility Criteria

Undergraduate:
- B.Tech in Civil Engineering [PU/12+, Diploma in Civil Engineering, AMIE]
- B.Tech Civil Engineering (Honors) [PU/12+, Diploma in Civil Engineering, AMIE]

Postgraduate:
- (M.Tech in Computer Aided Structural Engineering, M.Tech in Transportation Engineering Management, M.Tech in Construction Technology and Management)

Doctoral Programme: ME/M.Tech

- **1 Year Certification Program** Advanced certificate programme in plumbing and irrigation systems in Civil Engineering. SSLC Pass/Fail PUC Pass/Fail ITI Pass/Fail Diploma Pass/Fail Dropout B.E/ B.Tech Students.

- Advanced certificate programme in plumbing and irrigation systems in Civil Engineering. SSLC. Pass/Fail PUC Pass/Fail ITI Pass/Fail Diploma Pass/Fail Dropout B.E/ B.Tech Student

Life at **REVA**

LIBRARY AND INFORMATION CENTRE
Browse through lakhs of books, e-books, research publications, educational journals and magazines

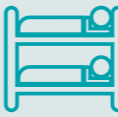## STUDENT CLUBS
Literary Club, Science Clubs, Sports Club, Robotics Centre, Eco Club, Quiz Club, Dance and Drama Club

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

GREEN CAMPUS WITH OPEN AIR AMPHITHEATRE
A lush green area that allows students to study, socialise and enjoy nature

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

AUDITORIUM AND SEMINAR HALLS
Large auditorium with 1000-seater capacity, along with adequate number of seminar halls to facilitate co-curricular activities
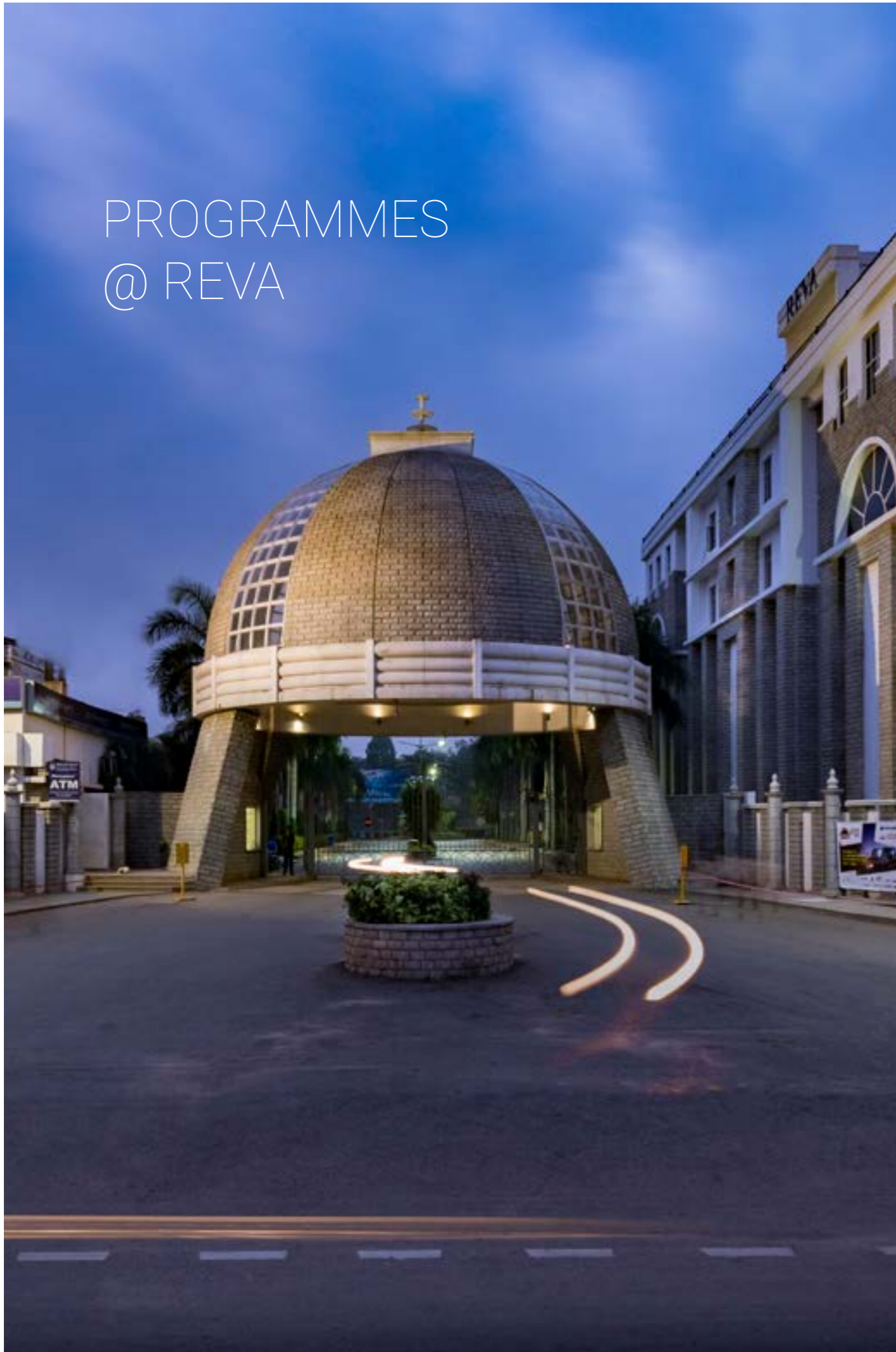
SPORTS
Special focus on Sports. More than 9 teams representing REVA University at state, national and international tournaments

OPEN AIR THEATRE
Always bring a variety of Cultural programmes by different groups of students

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

ONLINE LEARNING/ DIGITAL CLASSROOMS
Well-equipped classrooms with modern gadgets like projectors, tabs

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

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

TRANSPORTATION
Routes through all parts of Bengaluru city

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.

Alumni **Connect**

Manoj Kumar N
Alumni 2020

Lead dancer from PHOENIX Squad, DANCE7, has won 3rd position in MIDO (Malaysian International Dance Organisation) international dance competition held at Kuala Lampur, Malaysia.
The Journey in REVA has been mesmerising meeting all my needs and requirements both in personal and professional Life. The dynamic student and faculty diversity at REVA University makes sure you are not left behind for anything. School of Civil Engineering has always showed the right path to we students through various value based student club activities for holistic overall development of students. I'm very happy that my passion was not crushed in professional studies. REVA has always given importance for student development. Culture, passion and profession is perfectly blended for students to benefit.

Vinay C
Alumni 2020

Won Gold Medal in K1 Ring Fight, senior category under -91Kgs Representing Karnataka in WAKO India National Kickboxing Federation Cup 2018-19. Held at Shree Shiv Chatrapati Sports complex, Pune, Maharashtra. Organised by Ameteur Sports kickboxing Association, Maharashtra (Recognised by International Olympic Committee (IOC).
My journey in the temple of learning cannot be described in words. I have seen a drastic change since the day I joined school of Civil Engineering at REVA University. The friendly atmosphere in the campus calms the soul and encourage individuals to expand the wings and fly high in achieving the dreams. Well qualified faculties guide you through the journey. The societal duties of real civil engineers are very well taught through various initiatives like Jagruthi towards Global Warming and others.

THILAK GOWDA N
M. Tech Transportation Engineering and Management Alumni

The two years of M.Tech in Transportation Engineering and Management from REVA University created many best moments. The temple of learning educated many things in all the ways. The School of Civil Engineering faculty helped a lot that made us gain knowledge. Apart from academics REVA has given many felicific programmes, events and much more to encourage in all fields which made us gather all friends at a single platform. The best thing about REVA is its campus, greenery and the architecture in every element. With all these supports I could excel in academics, do research and go with publications.
The one lifetime memory from REVA for me is receiving the BEST OUTGOING STUDENT award from Dr. P Shyamaraju, The Chancellor, REVA University. A inspiration to all the students and faculties at the temple of learning.