REVA
UNIVERSITY
Bengaluru, India

School of
Computer Science Applications

About REVA University

REVA University has been established under the Government of Karnataka Act 80 of the year 2012. The University is located in Bengaluru on a sprawling green campus, spread over 45 acres of land, built with the state-of-the-art infrastructure creating an environment conducive for higher learning and research.

The Founders of REVA University believe in the motto of 'Knowledge is Power'. Driven with philanthropic vision and a missionary zeal, the campus is built to transform students into outstanding citizens. The University prides itself in contributing to every student's holistic development. The University currently offers 24 full - time Post Graduate programmes, 5 part - time Post Graduate programmes, 21 Graduate programmes, several Certificate / Diploma and Post Graduate Diploma programmes in Engineering, Architecture, Science and Technology, Commerce, Management Studies, Law and Arts & Humanities. Above all the University facilitates research leading to Doctoral Degree in all disciplines. The programmes offered by REVA University are well planned and designed based on in depth 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 facilitate students to opt for subjects of their choice in addition to the core subjects of the study and prepare them with required skills. It also provides opportunities for students to earn more credits and there by acquired additional Proficiency Certificates and Diplomas.

About the School of Computer Science & Applications

The School of Computer Science and Applications at REVA University is established in the year 2015 with its goal set to create Computer Science specialists to meet the global challenges.

The goal of true education is Intelligence and character building.

To achieve this, the vision of the school is to transform students into good human beings, responsible citizens and competent professionals, focusing on assimilation, generation and dissemination of knowledge in the area of Computer Science and Applications.

The School offers BCA, MCA, B.S in Cloud computing and Big Data and M.S in Computer Science considering job opportunities in various sectors. These programmes have been designed to provide knowledge and varied skills in different fields of practical importance. The School also facilitates research leading to Ph.D in Computer Science & Applications.

The total number of students in the school is 1440 including UG and PG. The school has a strong blend of experienced and enthusiastic faculty members who are well-qualified in various aspects of Computer Science, Mathematics and Applications of Information Technology like Data Analytics, Big Data, Cloud Computing and Wireless Networks. The school has a unique academic collaboration with the University of Alabama in Huntsville to jointly offer an MS Programme in Computer Science.

The school possesses numerous state-of-the-art digital classrooms and laboratories having contemporary computing equipment including cloud-based systems. The department has its own library with over 300 volumes with 250 titles of books for exclusive use for the students and the faculty. The excellent placement records of our alumni members makes the school proud and we would like to thank the entire team of placement and training cell for their enormous and steering efforts.

BCA

Overview

With the rapid growth of the IT industry in India, the demand for computer professionals is increasing day by day. This increasing growth of IT industry has created a lot of opportunities for the computer graduates.

Bachelor in Computer Applications (BCA) is one of the popular options to make a career in Information Technology. It is an undergraduate academic degree in Computer Applications. The duration of this programme is three years. This programme provides a sound academic base for an advanced career in Computer Applications.

This programme demonstrates sound knowledge in key areas of Computer Science or Industrial Computing. It also carries out the required analysis and synthesis involved in Computer Systems, Information Systems and Computer Applications.

BCA programme caters to the needs of students aspiring to excel in the field of Computer Applications and is designed to develop computer professionals versatile in the use of computer tools and technologies. The broad objective of the programme is to provide sound academic base from where the student can pursue an advanced career in Computer Applications.

Career Opportunities

With a Bachelor's degree in Computer Applications, one can find a reasonably good start in the Information Technology industry. BCA holders get jobs in IT segments like Software Services, Business Process Management (BPM/BPO), Engineering Services and Computer Hardware.

There is a huge scope in the field of Computer Applications. BCAites can take up jobs or can go for higher studies after the completion of the programme. There are many MNCs which provide jobs to the BCA graduates. If students have sound technical knowledge and all the required skills then they can hold good positions in MNCs.

If BCA Graduates wish to specialize in this field, then they can pursue advanced programmes such as MCA and Ph.D.

Eligibility

Pass in PUC/10+2 with at least 45% marks (40% in case of candidate belonging to SC/ST category) from any recognized Board/Council of or any other qualification recognized as equivalent there to.

Course Duration - 6 Semesters (3 years)

MCA Regular / MCA Lateral

Overview

The Master of Computer Applications (Regular) is a full – time programme with duration of three years (Six semesters) and Master of Computer Applications (Lateral) programme with duration of two years (Four Semesters). It is a post graduate programme that can be taken up after getting a Bachelor's Degree.

The programme is designed to meet the growing demand for qualified professionals in the field of Computer Applications. The MCA programme is inclined more toward application development and thus has more emphasis on latest programming languages and tools to develop better and faster applications. It covers various aspects of computational theory, network and database management, mobile technologies, electronics, mathematics, probability, statistics, etc. This programme rolls out different dimensions of planning, designing, implementing and maintenance of complex commercial applications and system software, and thus has more emphasis on the latest programming languages and tools to develop better and faster applications.

This programme prepares students to take up positions as System Analysts, System Designers, Programmers and Managers in any field related to IT. This programme therefore aims at imparting comprehensive knowledge with equal emphasis on theory and practical. MCA students spend a full semester working in the industry to get insight the working of the IT industry.

This programme includes subjects such as Mathematical Foundations for Computer Science, Computer Fundamentals and Organization, Programming using C, C++, UNIX, Oracle, Java and so on. It also includes Operation Research, User Interface Design, M-Commerce, E-Commerce, Internet-of-Things, Mobile Computing, Software Testing and Quality Assurance, Big Data Analytics, and many such areas intended to meet IT industry requirements.

Career Opportunities

MCA is one of the hottest career options available today. This is because after earning an MCA degree from a reputed University, there is a plethora of job opportunities available in the market. The true dilemma begins after earning an MCA degree as there is a wide scope for MCA graduates in Government as well as Private sector.

The Government agencies such as NTPC, GAIL, BHEL, etc. and private IT companies like Accenture, Infosys, Wipro, TCS, Cognizant, IBM, American Express, HCL, HP, etc. provide good opportunities. The educational institutions, administration, media houses, R&D institutions, etc., also have career prospects for MCA graduates.

Eligibility - MCA (Regular)

Bachelors Degree of three years with Mathematics / Statistics / Computer Science Programming / Computer Application / Business Mathematics / Business Statistics as one of the major/optional subjects with minimum of 50% (45% in case of SC/ST) marks in aggregate from any recognized University/Institution or any other qualification recognized as equivalent there to.

Course Duration - 6 Semesters (3 years)

MCA (Lateral Entry)

Candidates who have completed Bachelors Degree of minimum three years duration with at least 50% (45% in case of SC/ST category) of marks in BCA or B Sc (IT / Computer Science) with Mathematics as a subject at 10+2 level or at graduate level are directly admitted to the 3rd semester (2nd year) of the MCA programme.

Course Duration: 4 Semesters (2 years)

BS in CS (with specialization in Cloud Computing & Big Data)

Overview

The Bachelor of Science with specialization in Cloud Computing & Big Data programme is designed keeping in view the current scenario and possible future developments, both at national and international levels. This programme is designed to give greater emphasis on Cloud Computing and Big Data Analytics. This programme on Cloud Computing & Big Data will teach both the fundamental concepts of how and why Cloud systems works, as well as Cloud Technologies such as Amazon AWS, Microsoft Azure, and Open Stack. Students will learn concepts like virtualization, private & public clouds. They will also be proficient in "Big Data" on various platforms. Besides a hands-on project, this programme will include knowledge transfer by Industry experts. The lab sessions cover cloud application development and deployment, use of cloud storage, creation and configuration of virtual machines and data analysis on cloud using data mining tools. A variety of activities such as mini projects, seminars, interaction with industry experts, cultural activities and social activities are in place to emphasize holistic development of the students.

Career Opportunities

Students after successful completion of Bachelor of Science with specialization in Cloud Computing & Big Data programme:
- Can design cloud-based Solutions/Architecture.
- Can develop and deploy cloud application using popular cloud platforms.
- Can build Private Cloud, Public Cloud & Hybrid Cloud.
- Can design and develop highly scalable cloud-based applications by creating and configuring virtual machines on the cloud.
- Can perform big data analysis in cloud.

Eligibility

Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subject along with at least one of the following: Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained minimum 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together from any Board recognized by the respective State Government / Central Government / Union Territories or any other qualification recognized as equivalent there to.

Course Duration - 8 Semesters (4 years)

MS in Computer Science

Overview

The Master of Science in Computer Science is a professional degree which prepares students for emerging careers that meet the rapidly growing technology needs of an increasingly interconnected world. As businesses and society grapple with the challenges and opportunities of the digital age, information professionals play a crucial role in analyzing, systematizing and evaluating the massive resources generated by the digital revolution.

MS in Computer Science is a joint programme by REVA University and University of Alabama in Huntsville (UAH), USA. This is an innovative programme conceptualized and designed in view of market demand for computer professionals globally. Students will undergo one year of study at REVA University on all the necessary foundation courses and then they continue their 2nd year of study at University of Alabama on securing the required grade. The MS programme covers important courses in the major areas of Computer Science such as Internet of Things, Deep Learning, Machine Learning, Big Data Analytics, Information Security, Data Warehouse & Data Mining, Mobile Application Development, and Cloud Computing. Students will have the opportunity to work on Industry specific project at UAH.

Students who do not join UAH will complete their 2nd year study at REVA University and secure their MS degree.

Career Opportunities

A Master Degree in Computer Science could pave the way toward several technical careers in the area of Network and Computer Systems Administrators, Computer Programmers, Software Developers and Computer Information Systems Managers.

After completing MS in Computer Science, the graduates will be ready to be placed as Research Scientists or as Software Professionals in IT Industries, Financial Institutions, Banking and Insurance Companies, R&D Organizations, and Government Departments across the globe. They have prospects to serve as Computer Software Developers, Network and Computer Systems Administrators, Research Officers, IT Managers, Database Administrators, Games Developers, Information Systems Managers, IT Consultants, Multimedia Programmer, Network Engineers, Systems Analysts, Systems Developers, Geographical Information Systems Officers, IT Trainers, Technical Authors and so on in various sectors.

Eligibility

B E / B Tech in ECE / IT / EEE / CSE / ISE / TE / BCA / M Sc or B Sc in Computer Science / Mathematics / Information Science / Information Technology with a minimum of 50% (45% in case of SC/ST) marks in aggregate from any recognized University / Institution or AMIE or any other qualification recognized as equivalent there to.

Course Duration - 4 Semesters (2 years)

Ph.D. in Computer Science and Applications

Overview

REVA University is offering Ph.D. programme in 20 disciplines in Arts, Commerce and Management Studies, Education, Engineering and Technology, Science and Technology and Humanities. The University also has well equipped infrastructure for advanced research. All Schools have also engaged in advanced research and undertake funded projects. All the provisionally registered candidates will have to undergo PhD Course Work of One Semester duration from the date of Provisional Registration. The Course Work is an essential component of research leading to a Doctoral Degree.

Eligibility

Any candidate who satisfies the following conditions is eligible to seek registration for Ph.D. in Computer Science and Applications in the School of Computer Science and Applications upon application for provisional registration.

- A candidate shall have Master Degree (MCA, M Sc in Computer Science, Information Science and M S in Computer Science) or any other Degree / Diploma of the University or any other Degree/Diploma of any other University/Institution recognized as equivalent thereto, with a minimum of 55% marks or equivalent Cumulative Grade Point Average (CGPA) or an equivalent Grade) or an equivalent degree from a foreign educational Institution accredited by the approved Assessment and Accreditation Agency. However, a relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, is allowed for those belonging to SC/ST/Cat.-I/OBC (non-creamy layer) / differently-abled and other categories of candidates.

- Candidates who have cleared the M. Phil. course work with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) and successfully completed the M. Phil. Degree.

- A candidate shall be guided by a Research Guide of REVA University in the concerned subject

- In case where the research of a candidate is inter/ multi-disciplinary in nature, the candidate may opt for a Co-guide (External) who shall also be the recognized Guide of the University in the concerned subject. However, the main responsibility of supervising the research work is vested with the Guide and the candidate shall finalize and submit the thesis through the Guide giving due acknowledgement and credit to the Co-guide which shall also be mentioned in the Ph.D. Notification by the Registrar (Evaluation) after successful completion of Ph.D.

Duration

The minimum duration for Ph.D. programme is THREE years, including course work. However, extension up to SIX years period of registration beyond the above limits shall be permitted based on the recommendation of the concerned Research Supervisor.

REVA Way of Life:

LIBRARY AND INFORMATION CENTRE
Browse through lacs of books in libraries

OPEN AIR THEATRE
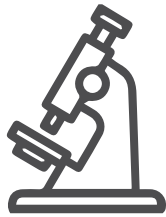Always brings a variety of Cultural programs by different groups of students

SPORTS
Outdoor and indoor sports facilities

NCC & VOLUNTARY WORK
NCC Students and other volunteers involve in social work, such as, organizing medical camps, blood donation camps, camps in rural areas

DIGITAL CLASS ROOMS AND LABORATORIES
Well-equipped with modern gadgets and digital facilities

FITNESS
Multi-gym station helps students exercise and keeps them fit and healthy.

FOOD COURT
North Indian, South Indian, Chinese Dishes, Ice Cream, Juices and Beverages.

STUDENTS' CLUBS
Literary Club, Science clubs, Sports club, Robotics, Eco club, Quiz club, Dance and Drama club

GREEN CAMPUS WITH OPEN AIR AMPHITHEATER
It keeps the campus cool and fills it with fresh and clean air

AUDITORIUM AND SEMINAR HALLS
Adequate number of auditorium and seminar halls to facilitate such curricular and co-curricular activities.

BRAND STORE
Variety of REVA branded merchandize, apparels, University hoodies, gift articles, and a wide range of stationeries.

HOSTELS
Home away from home

GUEST HOUSE
ATITHI provides rooms for parents and visitors

TRANSPORTATION
Routes through all parts of Bangalore city

Under Graduate Programs

- ◆ **B.Tech.**
  Computer Science
  Computer Science and Information Technology
  Electronics and Communication
  Electronics and Computer
  Mechanical | Civil | Electrical and Electronics
  Electrical and Computer

- ◆ **B.Arch.**

- ◆ **B.A., LL. B.** (Hons.)   ◆ **B.B.A., LL. B.** (Hons.)

- ◆ **BBA**
  Industry Integrated | Honours
  Entrepreneurship | Retail Management

- ◆ **B. Com**
  Industry Integrated | Honours | Capital Market

- ◆ **BCA**

- ◆ **B. Sc.**
  Mathematics, Statistics, Computer Science
  Physics, Mathematics, Chemistry
  Physics, Mathematics, Computer Science
  Mathematics, Computer Science, Economics
  Mathematics, Statistics, Physics
  Biotechnology, Biochemistry, Genetics
  Biotechnology, Chemistry, Microbiology
  Biotechnology, Biochemistry, Microbiology
  Medical Laboratory Technology (BMLT)
  Bioinformatics | Research

- ◆ **B. A.**
  Journalism, English, Psychology
  Political Science, Economics, Journalism
  Performing Arts, English, Psychology

Post Graduate Programs

- ◆ **M.Tech.** (Full time and Part time)

- ◆ **MBA**
  Marketing | Finance | Human Resource | Entrepreneurship
  Media & Mass Communication | Banking and Insurance
  International Business | Operation Management

- ◆ **MCA**   ◆ **M. Com**   ◆ **LL. M.**

- ◆ **MS** in Computer Science

- ◆ **M. Sc.**
  Biochemistry | Biotechnology | Chemistry
  Mathematics | Physics

- ◆ **M. A.**
  English | Journalism & Communication

- ◆ **MPA** in Bharatanatyam | Kuchipudi | Mohiniyattam

Diploma / PG Diploma Programs

- ◆ Diploma in Kuchipudi | Bharatanatyam
- ◆ Diploma in Plumbing & Irrigation Systems
- ◆ Diploma in Medical Laboratory Technology (DMLT)
- ◆ PG Diploma in Clinical Research Management
  in association with Clini India
- ◆ PG Diploma on Functional Genomics and
  Bioinformatics
- ◆ PG Program In Entrepreneurship &
  Construction Management

Research Programs

- ◆ **Ph.D**
  Engineering | Management Studies | Commerce
  Science and Technology | Arts and Humanities

www.reva.edu.in

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