



B.M.S. COLLEGE OF ENGINEERING

(Autonomous College under VTU)

Bull Temple Road, Bangalore - 19



DEPARTMENT OF COMPUTER APPLICATIONS

Vision

To emerge as a premier knowledge center for imparting computing education inculcating human values to solve global challenges.

Mission

- To empower students with knowledge, skills and attitude to develop comprehensive computing solutions that address the needs of academia, industry and society.
- To excel in education, research, consultancy and industry collaboration.

Programme Educational Objectives

Post Graduates of this programme will

- Demonstrate professional excellence in industry, public service or academia with strong skills in problem analysis, solution design and application development with a commitment to lifelong learning.
- Practice their profession with high standards of ethics.
- Be committed to work in teams with different cultures and disciplines and evolve as leaders in their roles



Contact Details

E-mail: mca_office@bmsce.ac.in

Website: www.bmsce.in/department/computer-applications

About the College

B.M.S. College of Engineering (BMSCE) was founded in the year 1946 by late Sri. B. M. Sreenivasaiah a great visionary and philanthropist and nurtured by his illustrious son Late Sri. B. S. Narayan. BMSCE is the first private sector initiative in engineering education in India. BMSCE has completed 70 years of dedicated service in the field of Engineering Education. 15 of its departments are recognized as Research Centers offering Ph.D./M.Sc. (Engineering by Research) Degrees in Science, Engineering, Architecture and Management. The Institution is affiliated to Visvesvaraya Technological University (VTU), Belgaum, Karnataka. BMSCE is a AICTE recognized QIP Centre in Engineering & Technology. BMSCE is the only Institution from India adopted by the Melton Foundation, USA. BMSCE IS TEQIP Phase I and Phase II Institute (a world bank project).

BMSCE is accredited with ‘A’ Grade by NAAC (2013-2018) and many programmes got accredited by National Board of Accreditation (NBA), New Delhi. More than 90% of the students secure first class/distinction. The Institution has an excellent Placement and Recruitment Cell. The Placement Centre provides career guidance, pre-placement training in soft skills to enable students acquainted with the current corporate requirements. More than 100 reputed Core/IT/MNC companies visit the campus every year for recruiting students from various branches. About 90% of the eligible students are getting placed every year. The College has a voluminous computerized library and information centre, which caters to the needs of students, research scholars and faculty.

The Institution has well-qualified, experienced & dedicated faculty and staff members. BMSCE has the most advanced laboratories for practical training, state-of-the-art computing facilities, spacious classrooms with good furniture and A/V aids, Wi-Fi campus and 24x7 Internet facilities in the departments and hostels. The Institution has Collaborative & Extension activities by way of MOUs with various Governmental and Non-Governmental organizations for fostering Academic/ Research/ Innovation. The College is being ranked consistently among the top 20 Engineering Colleges in the Country by surveys conducted by various media sources.



Hostel



Sports Complex



Data Center

About the Department

The Department of Computer Applications was established in 1985, initially with an intake of 30 students and the department admits 60 students for MCA programme (3yrs.) every year at present. From the academic year 1998-99, the college is affiliated to Visvesvaraya Technological University, Belgaum. The department offers MCA programme with autonomous curriculum with effect from 2016 - 2017. The department has a blend of qualified and dedicated faculty members to its credit. The department has an advanced computer lab equipped with networked high-end computers, to provide state-of-the-art computing facilities to the students and staff. In addition to the main library of the College, the department has full-fledged library with about 1600 books and reference materials.

The department has pioneered in building a strong relation with the industry that has helped the department in conducting various seminars on latest technologies, industrial visits and Entrepreneurship Development workshops for the benefit of students and staff. The department also provides live projects and guidance to the students through Innovative Cluster Lab (ICL) which is part of MOU between BMSCE and Altimetrik, thus helping the students in their campus recruitment. The Data Analytics Research Lab (DARL) of the department provides an opportunity to derive hidden knowledge from variety of data sets. The students of the department, over the

LIST OF RANK HOLDERS (BU)

S. no.	NAME	YEAR	RANK
1	Arathi T R	Jul 1997	1
2	Sushma R	Mar 1998	4
3	Shree Vidya S	Oct 1998	3
4	Muktha N	Nov 2000	2
5	Chandrika Rani M	Nov 2000	3
6	Rama B	Nov 2000	3
7	Anuradha R	Nov 2000	4
8	Aseem Gupta	Nov 2000	5

LIST OF RANK HOLDERS (VTU)

S. no.	NAME	YEAR	RANK
1	Krishna Prasad S	Jul 2001	4
2	Ashish Gupta	Jul 2002	5
3	Mahesh Gupta	Jul 2003	5
4	Sreedevi M	Jul 2004	5
5	Shweta	Jul 2007	9
6	Nidhi Mohta	Jul 2008	2
7	Chandana Baruah	Jul 2008	5
8	Poornima B	Jul 2009	5
9	Shivananda Sagar R	Jul 2012	1
10	Mayuri Vaidya K V	Jul 2015	3



MCA Library



MCA Laboratory



Faculty Rooms & Class Rooms



MCA Department (PG block)



Chandrayan to Mangalyan, a talk by Padma Shri Dr. S. K. Shivakumar, ISRO



Technochamp 2016 (IoT Ideathon)



MCA laboratory



FDC (Seminar hall)



Department Library



ICL lab

Infrastructure

Programming Laboratory (with 110 modern PCs)

Server Room

Department Library

Department Office

Class Rooms with LCD Projectors (3 Nos.)

Faculty Rooms (6 Nos.)

HOD Room

Faculty Development Centre (Seminar Hall)

Innovation Cluster Lab (ICL)

Data Analytics Research Lab (DARL)

IT Infrastructure	
Item	Particulars
No. of PCs	110
Licensed Softwares	Oracle 9i; Microsoft Office 2010, 2013; Windows 7, 8.1, 10; Visual Studio .NET; Microsoft MSDN; COBOL 85; Rational Rose; Rational Software Architect
Open Source Softwares	Ubuntu OS, Open GL, JDK 1.8, MySQL 5, Perl 5.12, PHP 5.2, Fedora 12, Apache, Tomcat 6, Eclipse-Juno, NS2, WAMP 5.5.
No. of Printers	9
No. of Scanners	1
No. of LCD Projectors	8
No. of Laptops	5

Teaching staff details

No. of Professors: 1 No. of Associate Professors: 3 No. of Assistant Professors: 8

Non-Teaching staff details

No. of Office Assistants: 1 No. of Library Staff Members: 2
No. of Laboratory Instructors/Assistants: 3 No. of Helpers/ Attenders: 2

Extra / Co-Curricular Activities

To promote learning beyond class room, the department promotes wide spectrum of activities such as Extension Lecture series, Workshops, Industrial visits, Cultural/Technical fests (Utsav, Phaseshift), IEEE professional activities, Publishing magazine, Entrepreneurship development.



An Industrial visit to Altimetrik India Pvt. Ltd



IEEE - WIE - event Parichaya



Personality Development workshop on “Feeling well and Doing Good” by Archana Bhat K, BMSCE



VTU Inter-collegiate Interzone Handball Runners



Software Engineering workshop by Ms. Ashwini Rao



An Industrial visit to SAP Labs



VTU Bangalore Central Zone Championship Badminton (Men)



An ED seminar on “Selfie with Entrepreneur” by Mr. Naresh Babu, CEO, Venus Technology Park, Bengaluru



A talk on “Yoga for Personality Development” by Yoga Ratna Dr. S.N.Omkar, IISc, Bengaluru

Teaching-Learning Process

It is based on lectures, tutorials, projects, quizzes, student seminars, mini projects, assignments, videos, hands-on sessions, open-ended experiments, self study component and other active learning methods.

Research

Faculty members are active in carrying out research work in the areas of Computer Networks, Performance Engineering, Distributed Systems, Reliability Engineering and Data mining. They published their research work in reputed International Conferences and Journals (E.g. Elsevier and Springer Journals).

Innovation Cluster Lab (ICL) : It was established in the year 2014 in collaboration with Altimetrik Technologies. It encourages students to develop IoT applications under the mentorship of industry experts. Some of the projects undertaken are: Swachh Bharath App, CONNECCT 2015 (Conference Management App), Health care App, Rich Ticketing App, Technochamp 2016 (IoT Ideathon), etc.

Data Analytics Research Lab (DARL) : It was established in the Year 2016. A UGC funded project on Teacher Recruitment Modeling was executed to propose various recommendations for recruitment of engineering teachers. It facilitates students to learn and apply data analytics to various data sets.



Teaching-Learning in MCA Laboratory



Innovation Cluster Lab



Data Analytics Research Lab

Proctor System

Every student is mentored by a faculty to address the various academic or other issues to promote overall development of a student. Each faculty member acts as a local guardian.

Awards

The College promotes Alumni awards, Merit awards to encourage and motivate the students to excel.

Faculty Profiles



Name: Dr. D N Sujatha
Qualification: MCA, Ph.D.
Experience: 23 Years
Area of Interest: Video-on-demand Applications, Vehicular Ad Hoc Networks, Internet of Things



Name: Mr. Girish K
Qualification: MCA, MS by Research
Experience: 10 Years
Area of Interest: Computer Networks, Intelligent Transport Systems.



Name: Mr. P Lakshminarayana
Qualification: MCA, pursuing Ph.D.
Experience: 22 Years
Area of Interest: Software Reliability



Name: Mrs. Shailaja K P
Qualification: MCA, M.Phil.
Experience: 14 Years
Area of Interest: Data Mining



Name: Mrs. S Uma
Qualification: MCA, M.Phil., pursuing Ph.D.
Experience: 18 Years
Area of Interest: Multi Agent System, Web Services



Name: Mr. Raghavendra Rao R V
Qualification: MCA, M Phil.
Experience: 16 Years
Area of Interest: Cloud Computing



Name: Dr. K. Vijayakumar
Qualification: MCA, Ph.D.
Experience: 17 Years
Area of Interest: Data Mining



Name: Mrs. S Shilpa
Qualification: MCA, M.Phil.
Experience: 11 Years
Area of Interest: Data Mining



Name: Mrs. T S Pushpa
Qualification: MCA, M.Phil.
Experience: 17 Years
Area of Interest: Data Mining



Name: Mrs. V Padmapriya
Qualification: MCA, Pursuing Ph.D.
Experience: 13 Years
Area of Interest: Vehicular Ad hoc Networks



Name: Mr. Ch Rama Mohan Reddy
Qualification: MCA, M.Phil., pursuing Ph.D.
Experience: 16 Years
Area of Interest: Software Performance Engg., Web Services, Distributed Systems



Name: Mr. Siva Rama Krishna
Qualification: MCA
Experience: 10 Years
Area of Interest: Software Engineering.

Major achievements

- VTU Ranks obtained: 2015-3rd Rank, 2012-1st Rank, 2009-5th Rank, 2008-2nd & 5th Rank, 2007-9th Rank, 2004-5th Rank, 2003-5th Rank, 2002-5th Rank, 2001-4th Rank.
- BMSCE team ‘CodemastersZs’ secured 14th rank in India, 250th worldwide in IEEE Extreme Competition 2013 with an MCA student as one of the team members.
- Students won prizes in IBM The Great Mind Challenge-2006, Codemasters-2012, TCS Best Project Award-2007/2010, JP Morgan Code For Good-2013.
- Published Research work in reputed Elsevier and Springer Journals and International Conferences.
- Executed a Major Research Project in data mining area funded by UGC.
- Signed MOU with IIT Mumbai to implement national wide NMEICT Project, sponsored by MHRD.
- Signed MOU with Novell Software.
- Signed NDA with “Enterprise Atlas Inc.” Boston, USA in 2014, to provide SAP Solutions.
- Signed NDA with “Lumisoft Technologies Private Limited” in 2015 to develop Healthcare Applications.
- Obtained outstanding IEEE Branch Counselor Award and best IEEE Student Branch Award in 2013 under the mentorship of department faculty.

Campus Placement and Internships

Over 50 companies visit the College campus for recruiting MCA students. Some of the companies are: SAP Labs, TCS, DirectI, Cerner, Intel, JP Morgan, Accenture, Akamai, Robert Bosch, Deloitte, Amazon, Manhattan Associates, IBM, Software AG. Most of the students get employment/internships during campus placements.

