



**B.M.S. COLLEGE OF ENGINEERING  
(Autonomous Institute, Affiliated to VTU)**

**Accredited for 5 years by NBA from 2019 to 2024 and  
accredited by NAAC with a grade of A++**



---

**DEPARTMENT OF COMPUTER  
APPLICATIONS**

---



Department of Computer Applications



**Programme Offered:** M.C.A (Autonomous Curriculum)

### **Vision**

*To emerge as a premier knowledge center for imparting education in Computer Applications.*

### **Mission**

*M1: Empower students with knowledge, skills, and attitude to develop comprehensive Computer Applications through a well-defined curriculum and its effective implementation.*

*M2: Engage in research and consultancy which leads to publications/patents/start-ups.*

*M3: Enhance collaboration with Industry.*

**Duration:** 2 years (Regular)

### **Eligibility criteria for the programme:**

A candidate should have passed **Bachelor of Computer Applications or Bachelor Degree in Computer Science** or equivalent degree or passed **\*B.Sc / B.Com / B.A with Mathematics** at **10+2** level or graduation level. **(\* A candidate should have passed the additional course or a bridge course as per the norms of the concerned university)**

### **The qualifying exams for admission to the programme:**

Students should write Eligibility Test **PGCET / KMAT** conducted by Karnataka Examination Authority

### **Accreditation:**

- The MCA programme got accredited for 5 years from **2019 to 2024** by **NBA**. It is a prestigious quality recognition awarded by the National Board of Accreditation for the MCA programme.
- BMSCE is accredited by the **National Assessment and Accreditation Council (NAAC)** with the highest grade of **A++** in the second Cycle with a CGPA of 3.83 on a scale of four. (This is valid from 28.03.2019 to 28.03.2024)

#### **Contact Details:**

**Department of Computer Applications**  
**B. M. S. College of Engineering, Bangalore-19**  
Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)

Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>



## From the HoDs Desk



Dr. Ch. Ram Mohan Reddy  
Professor & Head - Computer Applications

The department of Computer Applications (MCA) was established during 1984-85 when computer science education was in its infancy in India. The department offers a Masters in Computer Applications programme with an autonomous curriculum for aspiring students in the field of applied computer science and technologies. The MCA programme was started with an initial intake of 30 and later enhanced to 60. The duration of the MCA programme was 3 years until AY 2019-20 and it is reduced to 2 years with effect from AY 2020-21 with an intake of 60. The MCA programme got accredited for 5 years from 2019 to 2024 by NBA. It is a prestigious quality recognition awarded by National board of accreditation for MCA programme. The curriculum includes Internships, Projects, Mini-projects, Soft Skills, Industry visits, Emerging technologies like Machine Learning, IoT, Big Data, Block Chain, Agile methodologies, etc. The department has collaborations with IIT Bombay and IIT Kharapur to implement MHRD project "NMEICT", IIT Madras (NPTEL), Enterprise Atlas, and Altimertik.

The department has state-of-the-art Computing Lab with more than 100 modern PCs and an exclusive department library with over 6500 books and access to various journals & conference proceedings. In addition, the department has developed Innovation Cluster Lab (ICL) supported by Industry Experts and Data Analytics and Research Lab (DAR) to promote lifelong learning, innovation and research.

The strength of the department is Alumni, Faculty, staff members and students. Our Alumni occupy coveted positions in notable industry and academic institutions. The department has dedicated, committed and accomplished faculty members supported by technical & administrative staff. The department has faculty composition of 2 Professor, 2 Associate Professors, and 8 Assistant Professors along with 6 supporting staff members.

The students are encouraged to participate in Extra-curricular & Co-curricular activities along with the regular academic activities to groom their holistic personality. The skill set of students are enhanced through regular Hackathons, Extension Lectures, workshops, Industrial Visits, Alumni Interactions and professional body activities. The department brings out magazine 'Stride' annually to showcase the innate talents of the students.

The College attracts hundreds of companies every year to provide jobs to our students. Most of the eligible students get placed in reputed companies. The quality of our students is reflected in their placement track record (both on Campus & off Campus) and the applications developed by them.

Learning is a continuous process and does not end at end of three years. The department believes that innovative teaching-learning methods, coupled with problem solving using modern tools & self-study helps the students to enhance their skills and enable them to handle the challenges faced in their professional life.

### Contact Details:

Department of Computer Applications

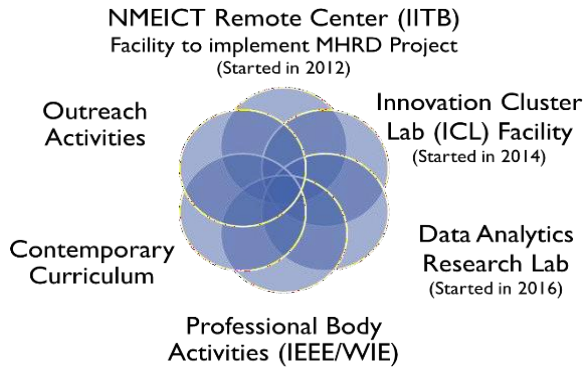
B. M. S. College of Engineering, Bangalore-19

Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)

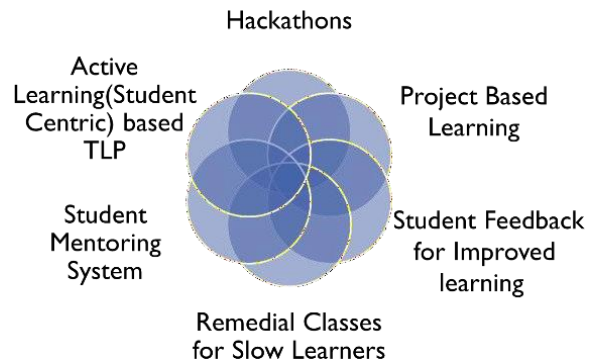
Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>



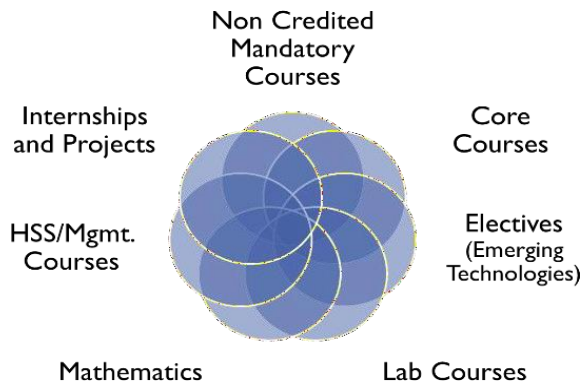
### ***DISTINGUISHED FEATURES***



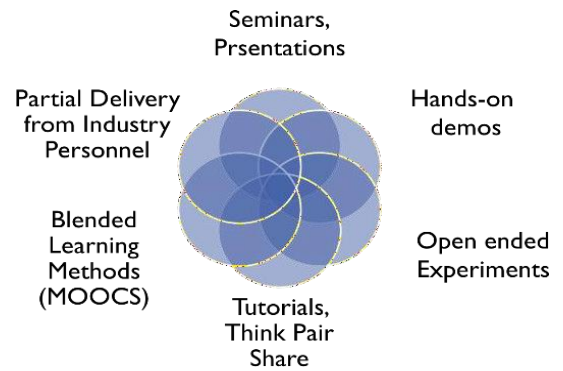
### ***BEST PRACTICES***



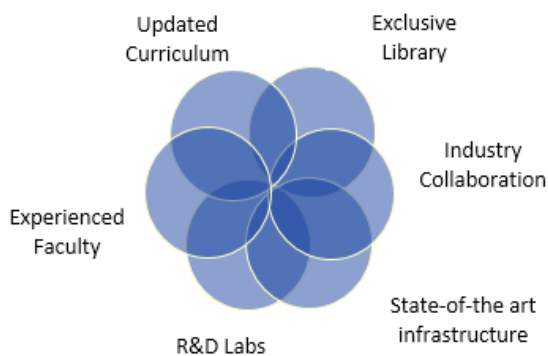
### ***CURRICULUM COMPONENTS***



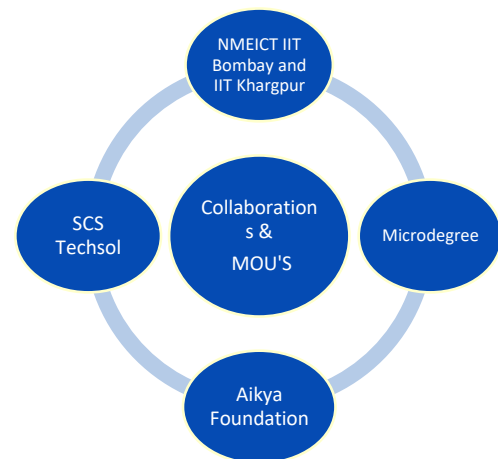
### ***TEACHING LEARNING PROCESS***



### ***UNIQUE FEATURE***



### ***COLLABORATIONS AND MOU'S***



#### **Contact Details:**

**Department of Computer Applications  
B. M. S. College of Engineering, Bangalore-19**

**Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)**

**Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>**



## Infrastructure, Research labs, and Placement Details

### INFRASTRUCTURE (Library, Lab, Seminar Hall, and Classroom)



**Department Library**  
(Volumes 6764, Titles:1739)



**Computer Lab: 148 systems**  
(i7-4470, 1TB HDD, 8GB and 16 GB RAM)



**Seminar Hall with AV and Recording facility**



### RESEARCH LABS



**Innovation Cluster Lab (ICL)**



**Data Analytics Research Lab (DARL)**

### PLACEMENT (Most of the Eligible Students get placed)



**Contact Details:**  
 Department of Computer Applications  
 B. M. S. College of Engineering, Bangalore-19  
 Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)  
 Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>



## Glimpses of Student Activities

### Co-Curricular Activities (Research Paper Presentation)



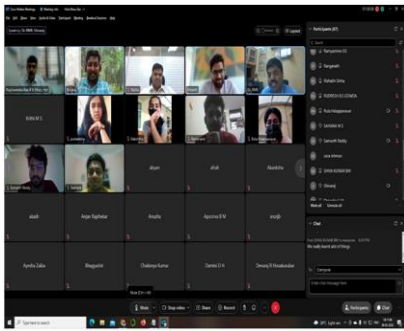
Nandan S (1BM20MC029) and Dilip C M (1BM20MC013) students of 4<sup>th</sup> semester MCA co-authored and presented a research paper entitled “Multi-Class Disease Detection using Convolution Neural Network” at the 3rd International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2022) with faculty members Prof. K P Shailaja and Prof. T S Pushpa.

- Sharmila T (1BF18MCA22) Ankhitha H M (1BF18MCA02) jointly authored a research paper on “Predictive Modelling for Risk Identification in Share Market Trading – A Multiphase Approach”. This paper is co-authored with faculty members Prof. R V Raghavendra Rao and Dr. Ch. Ram Mohan Reddy, published in Third International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2022) held at Nepal on January 27, 2022.
- Mahesh M(1BF18MCA13) jointly authored the paper titled “Detection Of Cotton And Hibiscus Flowers Using Yolov5” – GIS with faculty members Dr. D N Sujatha and Prof. V Padmapriya. This is published in the GIS Journal with Journal, Vol. 9, Issue 3, 2022, Pg. No-387-396, DOI:20.18001.GSJ.2022.V9I3.22.38807, March 07, 2022.
- Ganesh Hedge MCA 4<sup>th</sup> Sem student co-authored and presented a paper titled “IoT Devices in Health Monitoring” at the second International Conference on Current Trends in Multidisciplinary Research, organized by the Indian Academicians and Researchers Association (IARA)-2022 with the faculty members Prof. T S Pushpa and Prof. K P Shailaja.



Karthi G Dath (1BM20MC021) and K E Krishna Prasad (1BM20MC018), students of 4<sup>th</sup> semester MCA presented a paper titled “ IOT Weather Forecasting using AR Model” at the National Conference on Computing Technology(NCCT-22) with faculty members Prof. T S Pushpa and Prof. K P Shailaja.

### Guest Talks



A webinar on “Data Science Models – Develop Deploy Manage” was delivered by **Srikanth Katasani**, Vice President – of Analytics and Data Science and **Nabha Subramanya**



A webinar on “Oracle APEX” delivered by **Karakuvelraj Thangamariappan**, Lead Engineer, DAMAC Dubai, UAE



“Cyber Jaagrookta Diwas” programme initiated by UGC and VTU. A talk on “A closer look at Cybersecurity as a Full-Time Career” was delivered by **Mr. Chaitanya Bailey**.

### Students' participation and interaction with industry



TechBharat Connecting Event, an initiative of LUB-K and IMS foundation



Industrial Visit to Pacecom Technologies Pvt. Ltd., Bangalore.



TechBharat Connecting Event, an initiative of LUB-K and IMS foundation

**Contact Details:**  
**Department of Computer Applications**  
**B. M. S. College of Engineering, Bangalore-19**  
**Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)**  
**Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>**



**Societal Activities**



Participation in **"Hasiru Bahnuvara"** by Adamyta Chetana Trust



Ananthkumar **"Memorial Lecture and Walk"**



The clean-up and plantation drive which was coordinated by **"Vande foundation"** NGO held at Nandi Hills

**Talent Hub**



**Patriotism (Vandemataram Recital)**



**Cultural activities**



**Contact Details:**  
**Department of Computer Applications**  
**B. M. S. College of Engineering, Bangalore-19**  
**Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)**  
**Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>**



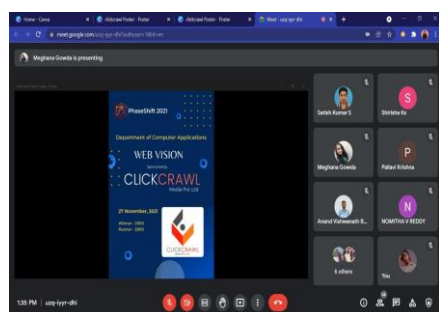
**Placement Club  
Activities**



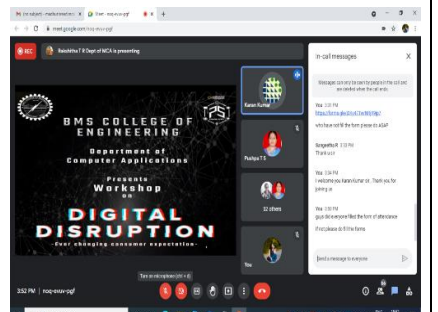
**Technical Fest  
(PhaseShift 2021)**



Coding event to create chatbot "Smart Bot"



Web page designing event "Web Vision"



Workshop on "Digital Disruption"

**The Shining Stars**



**Graduation Ceremony  
(Rank Holders)**



**Contact Details:**  
Department of Computer Applications  
B. M. S. College of Engineering, Bangalore-19  
Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)  
Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>





### FACULTY DETAILS

	<p>Dr. Ch. Ram Mohan Reddy Professor &amp; Head</p> <p>Area of Interest: Web Services, Software Performance Engineering, and related areas</p>		<p>Dr. D.N. Sujatha Professor</p> <p>Area of Interest: Mobile Adhoc networks, Internet of Things, Vehicular Networks</p>
	<p>Mr. P. Lakshminarayana Associate Professor</p> <p>Area of Interest: Software Engineering</p>		<p>Dr. S. Uma Associate Prof.</p> <p>Area of Interest: Service-oriented Architecture, Multi-agent systems, Data science</p>
	<p>Dr. K. Vijayakumar Associate Professor</p> <p>Area of Interest: Data Mining and Machine Learning</p>		<p>Mrs. T.S. Pushpa Assistant Professor</p> <p>Area of Interest: Data Mining and Data Analytics</p>
	<p>Mr. K. Girish Assistant Professor</p> <p>Area of Interest: Video-on-Demand, Intelligent Transport System, Internet of Things, and Machine Learning</p>		<p>Mrs. K. P. Shailaja Assistant Professor</p> <p>Area of Interest: Data Mining and Data Analytics</p>
	<p>Mr. R.V. Raghavendra Rao Assistant Professor</p> <p>Area of Interest: Data Mining, Data Analytics</p>		<p>Mrs. S. Shilpa Assistant Professor</p> <p>Area of Interest: Data Mining and Data Analytics</p>
	<p>Mrs. V. Padmapriya Assistant Professor</p> <p>Area of Interest: Vehicular Ad Hoc Networks, IoT</p>		<p>Mr. Siva Rama Krishna Assistant Professor</p> <p>Area of Interest: Software Engineering, Cloud Computing</p>

**Contact Details:**  
**Department of Computer Applications**  
**B. M. S. College of Engineering, Bangalore-19**  
**Email to: [hod.mca@bmsce.ac.in](mailto:hod.mca@bmsce.ac.in)**  
**Visit us at: <https://bmsce.ac.in/home/Computer-Applications-MCA-About>**