



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

DEPARTMENT OF MCA

AGRATHA

MCA NEWSLETTER

February 2020 to July 2020



*"Adversity causes some people to break
and others to break records..."*

Vol.7, Issue 2

Jnyaana-Vijnyaana-Ruupaayai Jnyaana-Muurte Namoh Namah |
Naanaa-Shaastra-Svaruupaayai Naanaa-Rupee Namoh Namah ||



DEPARTMENT OF MCA
BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Message from Principal

Dr. Mohan Babu G.N.
Principal, BMSIT&M

It gives me immense pleasure to share my feelings with you on the occasion of the publication of the seventh volume's second issue of AGRATHA, a newsletter of the Department of Master of Computer Applications.

Remember that, today, all engineering problems, whether with social or industrial relevance call for interdisciplinary approach and team work. Technical competence alone is inadequate. Hence, the staff and students of the department should not leave any stone unturned to develop both technical and team competencies and attain excellence in their endeavour.

A superb alignment is seen among the goals of the Management, faculty, staff members and students of BMSITM. Management has been very magnanimous to support all our endeavours to provide a wholesome personality to students, and equip them with skills at par with international standards. Anyway, I am sure that the students and staff of the department have made use of this opportunity to test and hone their intellectual skills to reach a wider readership. I congratulate the editorial team for having put their best to bring out this outstanding piece of work.



Words from the Chief Editor



Dr. Aparna K.
Associate Professor & Head

It is indeed a great honour to be the Chief Editor of the MCA Newsletter AGRATHA and it is an immense pleasure to launch this edition for the period February 2020 to July 2020. This newsletter is a snapshot of various activities and enhancement of all those who are involved with Team MCA. This newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us. Usually we fail to appreciate the good deeds of many people and activities that happen around us as we are engaged in irrelevant talks and assumptions. It could all change if we just pause to think of what is our contribution to the society from which we have been gifted with this blessed life. This newsletter will be a medium to provide proper acknowledgement and respect all of these efforts and its results.

This newsletter is a medium and will bridge the gap between achievements and publicity. Activities published in the newsletter are sufficient to prove my claim that Team MCA is progressing at an exponential rate. All credits and thanks go to the dedicated faculty members and their team work.

Signing off with a quotation "If you want to go fast, walk alone, if you want to go far, walk together".



BMS Educational Institutions



The year 1946 witnessed the dawn of the first private engineering college in the country, popularly known as BMS College of Engineering, established by late Sri. Bhusanayana Mukundadas Srinivasaiah (BMS). The founder Sri. B. M. Srinivasaiah was a philanthropist and a great visionary who realised the importance of technical education even before the country got independence. He was honoured by the Maharaja of Mysore, with the title “Dharma Prakasha” and “Rajakarya Prasaktha”.

B.M.S. Institute of Technology & Management is affiliated to VTU, Belagavi. As a part of one of the ten institutions under BMS Educational Trust being managed by a council of trustees appointed by our beloved Smt. Dr. B. S. Ragini Narayan, the successor of Late Sri. B.S. Narayan and also the donor trustee and Member Secretary of BMS Educational Trust. It is emerging as one of the finest technical institutions, providing high quality academic instruction and innovation.



BMS Institute of Technology & Management



Vision

To emerge as one of the finest technical institutions of higher learning to develop professionals who are technically competent, ethical and environment friendly for betterment of the society

Mission

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface

BMS Institute of Technology & Management was established in the year 2002-03, is one of the ten educational institutions under the BMS Educational Trust recognized by AICTE, New-Delhi and affiliated to Visvesvaraya Technological University, Belgaum. The Institute offers 7 UG, 3 PG and 8 Research Programmes. As on 2018-19, approximately the number of faculty members with Ph.D. is 64, Ph.D. scholars are 103.

The Institute is located on a 18.5 acres campus in Avalahalli, Doddaballapur Main Road, Yelahanka, Bangalore-560064, with the salubrious climate of Bangalore and the serene greenery in the campus located away from the hustle and bustle of the city. The institution has grown in strength and is emerging as one of the best technical institutions in the country. Some of the companies with which the institute signed MOUs are KPIT, BOSCH, IBM and TEXAS Instruments.

BMSITM was honoured with Outstanding Engineering Institute-South by Vijayavani National Leadership Award.

BMSITM was honoured with Student Excellence award among private engineering institutes-South as per the analysis of Dataquest.



Department of Master of Computer Applications

Department Vision

To develop quality professionals in Computer Applications who can provide sustainable solutions to the societal and industrial needs

Department Mission

Facilitate effective learning environment through quality education, state-of-the-art facilities, and orientation towards research and entrepreneurial skills

Programme Educational Objectives (PEOs)

PEO 1: Develop innovative IT applications to meet industrial and societal needs.

PEO 2: Adapt themselves to the changing IT requirements through lifelong learning.

PEO 3: Exhibit leadership skills and advance in their chosen career.

Programme Outcomes (POs)

- Apply knowledge of computing fundamentals, computing specialization, mathematics and domain knowledge to provide IT solutions.
- Identify, analyse and solve IT problems using fundamental principles of mathematics and computing sciences.
- Design, develop and evaluate software solutions to meet societal and environmental concerns.
- Conduct investigations of complex problems using research-based knowledge and methods to provide valid conclusions.
- Select and apply appropriate techniques and modern tools for complex computing activities.
- Understand professional ethics, cyber regulations and responsibilities.
- Involve in life-long learning for continual development as an IT professional.
- Apply and demonstrate computing and management principles to manage projects in multidisciplinary environments by involving in different roles.
- Comprehend and write effective reports and make quality presentations.
- Understand the impact of IT solutions on socio-environmental issues.
- Work collaboratively as a member or leader in multidisciplinary teams.
- Identify potential business opportunities and innovate to create value for the society and seize that opportunity.



About the Department

The Department of MCA is accredited by the National Board of Accreditation, New Delhi.

The MCA program is intended to provide a modern industry-oriented education in applied computer science, thereby focusing on providing a sound theoretical background as well as good practical exposure to students in the relevant areas.

The MCA Department was established in the year 2003 with an approved intake of 60 students with an excellent Library and Laboratory facilities. It has 12 qualified, experienced and dedicated young teaching staff (05 Ph.D. holders and 07 are pursuing Ph.D.) and 2 technical staff members creating an amicable teaching and learning environment. The faculty members of the dept. have executed their responsibilities as coordinators/ members of the BOS/BOE in VTU, other universities and autonomous institutions as well as editorial board members / reviewers of international journals. The dept. has an aggregate of VTU examination result of nearly 94%, secured 11 VTU Ranks and placement of nearly 90% (with 85.19% for the year 2019-20) since its inception. The faculty members are involved in an array of research interests such as Wireless Networks (Cognitive, Ad-hoc and Sensor networks), Network security, Cloud Computing, E-Commerce, Data Science and Digital Image Processing among others. The Department of MCA is also recognized as VTU Research centre and several internal and external candidates are pursuing their Doctoral degree.

Department has organized series of Technical/Expert Talk, Workshops, Industrial Visits, Alumni Interaction, Parents Teachers Meeting, Project Based Learning Evaluation/Exhibition, and Technical Competitions to enrich the students from different perspectives and weekly counselling through effective proctoring system to support slow learners and boost quick learners. The department also dealt with the CoVID-19 pandemic in an efficient way by conducting online classes, cooperative and co-curricular activities along with continuous online mentoring to alleviate the situation and make the learning hassle-free and effective. It is worth mentioning the effort and dedication shown from the students' and parents' side as well, in adjusting to this changed scenario of teaching-learning process.

Best Practices

The department offers electives in advanced subjects which has relevance in the industry. The department organized partial delivery of courses (PDC) by the industry experts as adjunct faculty for the several courses such as Web Programming, Advanced Java Programming, Cloud Computing and Software Testing with objectives of understanding industrial application of the core and current versions of the subjects.

Department of MCA has adopted several best practices as a part of its Teaching and Learning Processes (TLP) with OBE model such as PDC, Innovative Teaching and Co-operative Learning, Continuous Evaluation, offering Value Added Courses(VAC) to enhance student competency and make them industry ready, remedial/tutorial classes to enhance problem solving skills in critical subjects, rubrics based evaluation of seminars and project work, seminar on the topics beyond the syllabus by individual students, student-teacher joint paper publications, student/faculty internship to get exposed to contemporary skills/project works, deputing faculty members to participate in workshops/ conferences, presenting invited talks, participating as a resource person in conferences/workshops/symposiums, authoring technical books etc. Open short-term courses are offered at the beginning of every semester in contemporary technologies



to make the students get foundational knowledge in the new technologies and make them get expertise on them throughout the semester by making them take up projects on the same.

Improvements

All the classes, though taken online for the even semester, utmost care is taken that every student is reached by ensuring that the live classes are recorded and uploaded into the department YouTube Channel so that the students can watch the videos at their convenience or when the network issues were rectified. Labs were conducted using Virtual Labs. Eventual assignments were given to monitor the students' adherence to the schedule to make sure that they go through every lecture video to maintain the flow in learning. Further, co-curricular activities were conducted online which attracted maximum student participation. Assessments were taken by using Moodle and Google classroom by giving possible priority to students' concerns. Frequent proctoring sessions were also conducted to address the students' issues.

Faculty and Support Staff

Department of MCA is having highly qualified and well-trained faculty members who strive to impart knowledge to the students who join MCA. The department is growing step by step with its experienced and enthusiastic staff. The staff and students are performing well in academics, cultural and sports activities throughout the year. Below is the list of faculty members and support staff with their qualification and other details.

Sl	Name	Qualification	Designation	Research Area
1	Dr. Aparna K.	M.C.A., M. Phil., Ph.D.	Associate Professor & Head	Data Mining
2	Dr. Arunkumar B.R.	MCA, M. Phil., M.Tech. (CSE), Ph.D. (CS), PGDIPR (NLSIU)	Professor	Computer Networks, Data Science, Cloud Computing, Software Engineering & IPR
3	Dr. Ganesh P.	M.C.A., Ph.D.	Associate Professor	Cloud Computing
4	Dr. Nagabhushan S.V.	M.C.A., Ph.D.	Assistant Professor	E-Commerce Modelling & Software Engineering.
5	Mr. Dwarakanath G.V.	M.C.A.	Assistant Professor	Computer Networks
6	Mr. Shivakumara T.	M.C.A.	Assistant Professor	Information & Network Security, Database
7	Mrs. Reshma C.R.	M.C.A.	Assistant Professor	Cognitive Radio Networks
8	Mrs. Drakshaveni G.	M.C.A, M.Tech.	Assistant Professor	Digital Image Processing
9	Mrs. Nirupama	M.C.A.	Assistant Professor	Computer Networks
10	Mrs. Sridevi M.	M.C.A.	Assistant Professor	Social Media Data Analytics
11	Mr. Venkatesh A.	M.C.A.	Assistant Professor	Sensor Networks
12	Dr. Sudarsanam P.	M.C.A, M.E(CSE), Ph.D.	Assistant Professor	Grid Computing



Technical Staff

Sl	Name	Designation
1	Mr. Shashikiran J.S.	Instructor
2	Mr. Murulidhara K.N.	Asst. Instructor

Research Initiatives in the department

- Most of the projects were developed based on the concept of IoT and several of them won Best Project prizes in the Open day event.
- A few other projects are submitted for publication in indexed conferences and journals.
- Faculty members are encouraged to do internship in renowned industry/ research institutions.

Innovative/ Collaborative/ Cooperative learning methods adopted

- Cooperative and innovative learning methods like Open Ended problems, Case Study based learning, Recap of completed chapters, Project Based Learning, Asynchronous Learning and Module Walkthroughs were adopted in various subjects to substitute for the gaps in online learning.

Action plan for Slow Learners and Quick Learners

Action plan has been framed through enriching classes for quick learners to sustain their performance and do even better and extra classes for slow learners to keep pace with the quick learners. Slow learners who have scored less than 60% in IA marks were given remedial inputs, study materials and references.

“Learning is not attained by chance, it must be sought for with ardour and diligence.”
- Abigail Adams



**Professional Body Membership & Ph.D. Status Details**

SI	Faculty Name	Professional Membership Numbers	Ph. D. Status/ Research Guidance
1	Dr. Aparna K	CSI - LM00146827 ISTE - LM52361	
2	Dr. Arunkumar BR	MCSI-00135953 ISTE-LM 45448 LM CRSIL/181 MIAENG MISRN LMIETE M 500221	Guiding 06 Ph.D. research scholars
3	Dr. P Ganesh	ISTE-LM52360	
4	Dr. Nagabhushan SV	ORSI – Operation Research Society of India -1215/L/N/16	
5	Mr. Dwarakanath GV	ISTE LM 44209	Registered
6	Mr. Shivakumara T	ISTE-LM92649, DSCI-2018	Comprehensive viva completed
7	Mrs. Reshma C R	ISTE, LM110654	Comprehensive viva Completed
8	Mrs. Drakshveni G	CSTA	Comprehensive viva Completed
9	Mrs. Nirupama	ISTE-LM93814 ISCA LM29016	Registered
10	Mrs. M Sridevi	ISTE LM 52363 ISCA L29017	Comprehensive viva Completed
11	Mr. Venkatesh A	ISTE LM93723	Comprehensive viva completed
12	Dr. P Sudarsanam	ISTE LM93724	

Department Advisory Board

Sl. No	Name	Designation/ Organization	DAB Representative As
1	Dr. Aparna K	Associate Professor & HoD Department of MCA BMSIT&M	Chairperson
2	Dr. Arunkumar B R	Professor Department of MCA, BMSIT&M	Faculty Member (Member)
3	Ms. Vidyavati Mallappa	Technical Leader Nokia Networks, Bengaluru	Research (Member)
4	Dr. Nithin Nagaraj	Associate Professor NIAS, Bengaluru	Academia (Member)
5	Mr. Mayank Pratap Singh	Senior System Engineer IBM India Pvt. Ltd. Bengaluru	Industry (Member)



6	Mr. Aride C	Member of Technical Staff Paypal Bengaluru	Alumnus (Member)
7	Sri T N Nagaraj	Business	Parent (Member)
8	Ms. Apoorva H A	IV Sem MCA USN: 1BY18MCA06	Student (Member)
9	Dr. P. Ganesh	Program Coordinator Associate Professor Dept. of MCA, BMSIT&M	Member Secretary

Staff Recognition

- Dr. Arunkumar B.R, Professor, Dept. of MCA, BOS Chairman, MCA, VTU, attended an online Joint BOS meeting on 18th May, 2020 on Webex platform.
- Dr. Arunkumar B R, Professor, Department of MCA was a reviewer for Global Research and Development Journals for the article entitled “Women abuse Detection in Video Surveillance using Deep Learning” in May 2020.
- Shivakumara T, Assistant Professor, Department of MCA was a reviewer for Global Research and Development Journals for the article entitled “E-Securing Home” in May 2020.
- Dr. Arun Kumar B. R, Professor, Chairman, BoS, VTU MCA PROGRAMME attended joint BoS meeting with Vice Chancellor and Registrar, on 23-07-2020.
- Dr. Aparna K, Associate Professor & HoD, Dept. of MCA, was deputed as an Auditor to the Department of Computer Science and Engineering, BMSITM, to audit the NBA preparation of CSE-PG-M.Tech. programme on 30-07-2020.
- Dr. Aparna K, Associate Professor & HoD, Dept. of MCA, attended the Ph.D. Doctoral Committee meeting as a Committee member, for 2 research scholars, at the Dept. of MCA – VTU Research Center, Ramaiah Institute of Technology, Bengaluru.

Invited Talks delivered by faculty of the MCA

- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has extended his support as resource person for “DTP –Corel Draw Skill Development Programme” to non-teaching staff of BMSITM, from 26th June 29th June, 2020 at BMSITM, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has extended his support as resource person for Open Short Term Course on “Cyber Security – Attacks, Threats, Tools and Block Chain Use Cases” to Students of BMSITM, from 16th to 20th June, 2020.



Invited Talks delivered by faculty of the MCA outside BMSIT&M

- Ms.M.Sridevi, Asst. Professor, Dept. of MCA has extended her support as resource person for the corporate training program conducted on “Mathematics for Data Science” at Corporate Technology & Engineering Academy, Larsen & Toubro, Madh, Mumbai from 24th to 26th February, 2020.



- Ms. M.Sridevi, Asst. Professor, Dept. of MCA has extended her support as resource person for the 3 hours Webinar live streamed by L&T, India on “Mathematics for Data Science” with 320 participants from all over India on 30th April, 2020, using Microsoft Teams platform.
- Ms.M.Sridevi, Asst. Professor, Dept. of MCA has extended her support as resource person for the online corporate training program conducted on “Mathematics for Data Science” for the employees of L&T through Corporate Technology & Engineering Academy, Larsen & Toubro, Madh, Mumbai from 11th to 15th May, 2020.
- Dr. Aparna K, Associate Professor & Head, Prof. M.Sridevi, Asst. Professor, Dept. of MCA have extended their support as resource person and delivered sessions on “Decision Tree Learning” and “Bayesian Learning and Inference” respectively, during the 5-day FDP on “Machine Learning” conducted from 27th to 31st July, 2020 organized by the Dept. of MCA, BMSITM, Bengaluru.

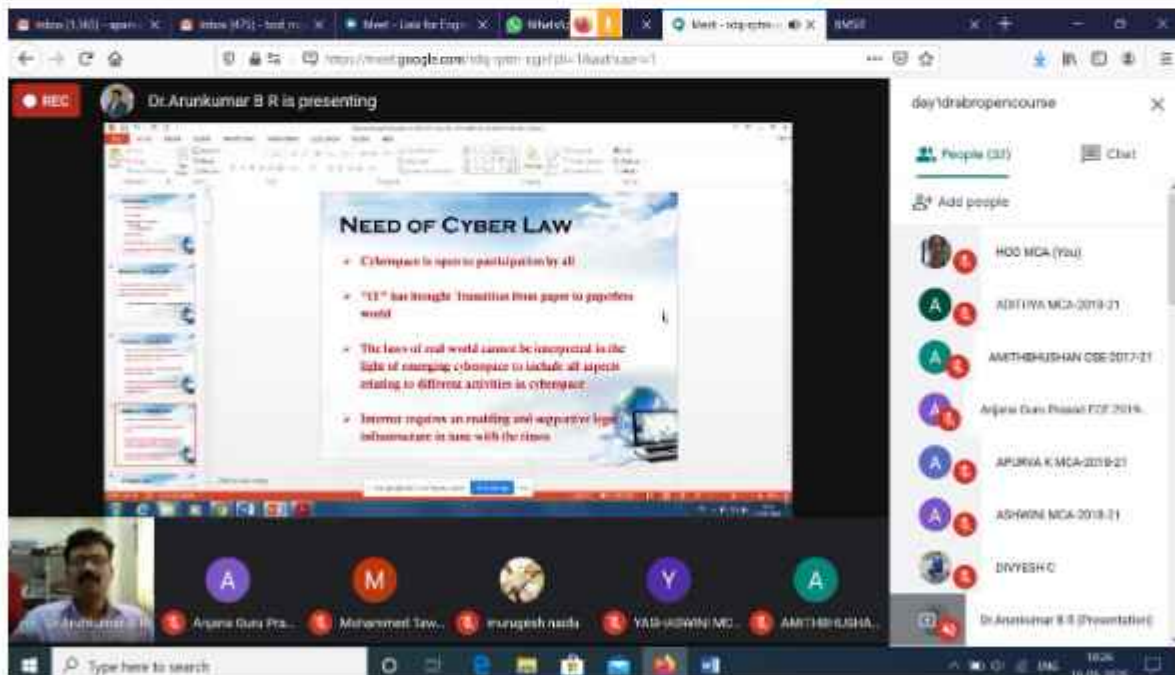
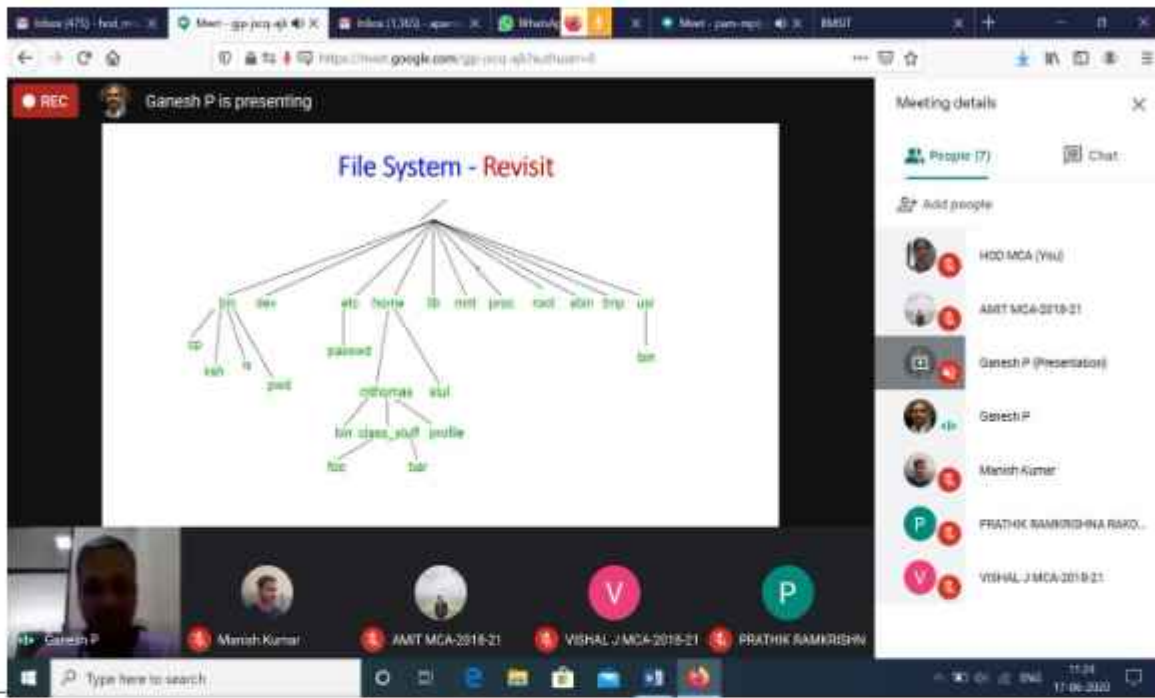
**Change is the end
result of all true
learning.**

Leo Buscaglia



Open Short-Term Course:

Two Open courses were rolled out from the Department of MCA from 16th June to 20th June, 2020. One was on “Unix for Engineers” with 9 participants and the other was “Cyber Security – Attacks, threats, tools and Block chain use-cases” with 48 participants. Some of the snapshots of the same:





Research Papers published in International Journals:

- Mr. Shivakumara T, Muneshwara M S, Rajshekhar M Patil, Nirupama B K , Chethan A S, "Automation of Trainee Life Cycle in the Corporate World" , International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-6, March 2020.
- Mr. Shivakumara T, Dwarakanath G V, Chethan A S, Muneshwara M S, Anand R, "Aasthi – Asset Administration System" , International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN:2278-3075, Volume-9, Issue-6, April 2020.
- Mr. Shivakumara T, Rajshekhar M Patil, Shantakumar B Patil, "Self-Conceptualization and Multi Privileged Algorithm based Controller", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9, Issue-4, April 2020.
- Ms. M.Sridevi, Arunkumar B.R., Dept. of MCA published a paper titled "Detecting the Presence of Power Law to Understand the Distribution of Patient Groups Related to Chronic Diseases on Social Media" in the Scopus Indexed - International Journal of Advanced Science and Technology, ISSN: 2005-4238, Volume 29, Issue 7, July 2020.
- Mr. Venkatesh A, Shivakumara T, Sudarsanam P, Dept. of MCA published a paper titled "VPC: Virtual Private Cloud Overview" in International Journal of Application in Engineering & Management, ISSN:2319-4847, Volume-9, Issue-7, July 2020.

Research Papers/ articles presented in the International Conference/ published in magazine:

- Dr.Arunkumar R., Professor, Dept. of MCA presented a paper titled, "Impact of Cyber Threats on Electronic Health Records" in a Scopus Indexed Springer Conference, ICCNCT-2020 at COIMBATORE on 23rd July, 2020.
- Dr. P Ganesh, Associate Professor, and Dr. Aparna K, Associate Professor & HoD, Department of MCA, have jointly published an article titled "Big Data Analytics for Agriculture – Scope and Future" in the CSI Communications Magazine issue of March 2020. The article can be viewed at <http://www.csi-india.org/Communications/March%202020%20for%20Web.pdf>

Faculty Participation in Workshops:

- Dr. Arun kumar B R , Professor, Dept. of MCA attended one week online FDP on "IoT" conducted by ATAL-AICTE from 25th April to 29th April, 2020.
- Mr. Sudarsanam P, Asst. Professor, Dept. of MCA has participated in the online Faculty Development Program on "Educational Analytics" organized by the School of Management, Kristu Jayanti College (Autonomous), Bengaluru from 2nd to 9th May, 2020.
- Dr.Arunkumar B R, Professor, Dept. of MCA attended online FDP on "NBA and NAAC Accreditation Process" organized by IQAC, MSRIT under AICTE Margdarshan Scheme from 4th to 8th June, 2020.
- Ms. M.Sridevi, Asst. Professor, Dept. of MCA attended one week Online FDP on "Data Sciences" organized by AICTE-ATAL Academy at MSME Technology Development Center, Meerut from 4th to 8th May, 2020.
- Mr. Sudarsanam P, Asst. Professor, Dept. of MCA has participated in the online Faculty Development Program on "Contemporary tools and Techniques for Teachers and Researchers in Higher Education: Experience of using virtual classrooms" organized by the Cambridge Institute of Technology, Bengaluru on 9th May, 2020.



- Mr. Sudarsanam P, Asst. Professor, Dept. of MCA has participated in the virtual Faculty Development Program on “MOODLE” organized by Tagore Institute of Engineering and Technology, Attur in association with Spoken Tutorial IIT Bombay Pandit Madan Mohan Malaviya National Mission Teachers and Teaching, MHRD, Government of India from 4th to 9th May, 2020.
- Mr. Sudarsanam P, Asst. Professor, Dept. of MCA has participated in the virtual Faculty Development Program on “Role of Teachers in Quality Enhancement and Accreditation” organized by the IQAC Kristu Jayanti College (Autonomous), Bengaluru from 11th to 18th May, 2020.
- Mr. Sudarsanam P, Asst. Professor, Dept. of MCA has participated in one-week online Faculty Development Program on “Big Data Tools” in association with Computer Society of India, Hyderabad, organized by Department of Computer Science Engineering and Information Technology, St. Martin’s Engineering College, Secunderabad, from 18th to 23rd May, 2020.
- Ms. Drakshaveni G, Assistant Professor, Dept. of MCA attended online FDP on “BIG DATA MANAGEMENT:AN End-to End Perspective”, from 15th to 19th June, 2020 at M. S. Ramaiah Institute of technology, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Department of MCA attended online FDP on “Emerging Trends in Cyber Security” held on 15th to 20th June, 2020 at Department of CSE, CMR Institute of Technology, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA attended online FDP on “Mathematical Concepts by Using Free Open Source Software (Foss)” from 21st July, 2020 to 25th July, 2020 at BMSITM, Bengaluru.
- All the faculty members of Dept. of MCA attended 5-day online FDP on “Machine Learning” conducted by the Dept. of MCA from 27th July, 2020 to 31st July, 2020 at BMSITM, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA attended 8-day online workshop on “Cyber Security” from 27th July, 2020 to 31st July, 2020 at Sapiens in association with CySeck-Govt. of Karnataka, CS-CoE, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA attended online workshop on “Swachhta Action Plan for NSS Program Officers of Bengaluru North District”, Karnataka, on 21st July, 2020 at Mahatma Gandhi National Council of Rural Education in Collaboration with National Service Scheme State Cell Karnataka.
- Mr. Shivakumara T participated in Cyber Security-hands on workshop from 17th to 24th July 2020 CyberSapiens United LLP.

Online Quiz attended by faculty:

- Mr. Shivakumara T, Assistant Professor, Department of MCA attended Online Quiz on “Data Mining and Data Warehousing” held on 3rd June, 2020 at Department of CSE, Vivekananda Institute of Technology, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has participated in “International Day Against Drug Abuse and Illicit Trafficking”, organized by NSS, Red Cross Youth Wing, VVCE, Mysuru on 15th July, 2020.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has participated in “National Level Technical Quiz on Python Programming”, organized by Department of ECE, SVS College of Engineering, Coimbatore, Tamilnadu, on 29th July, 2020.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has participated in “E-quiz on Teaching Pedagogy”, organized by Department of ECE, ATME College of Engineering, Mysuru on 30th July, 2020.



- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has participated in “Against Drug Abuse”, organized by NSS, Red Cross Youth Wing, BMSITM, Bengaluru on 27th July, 2020
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has participated in “National Level online Quiz on Information Technology”, organized by Department of Commerce, Sree Anantha Padmanabha Arts, Science & Commerce College, Vikarabad, Telangala, on 28th July, 2020
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has participated in “ICT tools in teaching”, organized by Department of Pharmacology, Jayamukhi college of pharmacy on 29th July, 2020.

Workshops organized by the Department:

- The Department of MCA organized a 5-day FDP on “Machine Learning” from 27th July 2020 to 31st July 2020. The FDP received an overwhelming response of around 350 registrants from various engineering colleges in and outside Karnataka. The FDP was formally inaugurated by the Principal Dr. MohanBabu G N and the key note session was delivered by Mr. Saurabh Jain, Senior Principal Engineer, Broadcom Inc., Hyderabad. The sessions were handled by in-house resource persons, Dr. Aparna K, Prof. M. Sridevi, Dr. Rudresh and Dr. Santhi Natarajan. The FDP was co-ordinated by Dr. Aparna K, HoD, MCA.



Inaugural address by Principal



Keynote address by Mr. Saurabh Jain



Session by Dr. Aparna K, HoD, Dept. of MCA



Session by Prof. M.Sridevi, Dept. of MCA



Session by Dr. Rudresh, Dept. of ISE



Session by Dr. Santhi Natarajan,
AI&ML

Faculty Achievements:


- Dr. P Ganesh, Associate Professor, Department of MCA was awarded the Ph.D. Degree in the 19th VTU Convocation held on 8th February, 2020 at VTU, Belagavi.




- Dr. Aparna K, Associate Professor & Head of the Department, Department of MCA, has completed and qualified in the online course “Data Analytics using R Programming” of 69 hours duration conducted by Udemy in March 2020.



- Mr. Sudarsanam P has completed an online certification in “Introduction to Algorithms and Analysis” offered by IIT, Kharagpur through Swayam – NPTEL.





NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)




This certificate is awarded to
P SUDARSANAM
for passing the course
Introduction to Algorithms and Analysis
with Score* **57** %

A. Goswami
Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

Jan-Apr 2020
(12 week course)

Indian Institute of Technology Kharagpur



- Dr. Aparna K, Assoc. Prof & HoD, Department of MCA, attended a webinar on “Using Technology to Deliver lessons in a crisis” organized by EduTECHAsia on 9th April, 2020.
- Dr. Aparna K, Assoc. Prof & HoD, Department of MCA, attended a webinar on “Future of AI inspired by Customer Use Cases for AI-ML” organized by ICT Academy on 9th April, 2020.
- Dr. Aparna K, Assoc. Prof & HoD, Department of MCA, attended a webinar on “Robotic Process Automation: Basics and Beyond” organized by ICT Academy on 10th April, 2020.
- Dr. Aparna K, Assoc. Prof & HoD, Department of MCA, attended a webinar on “Introduction to VMWare Cloud” organized by ICT Academy on 11th April, 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA attended Webinar Session followed by assessment on “Threat Intel using OSINT”, organized by CS-CoE- Cyber Security Karnataka (CySecK) in association with PurpleSynapz on 9th April, 2020.



- Dr. Aparna K, Assoc. Prof & HoD, Department of MCA, attended a webinar on “The Future of Making” organized by ICT Academy on 14th April, 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA attended Webinar Session followed by assessment on “Zero Trust – The perimeter is dead” organized by CS-CoE- Cyber Security Karnataka (CySecK) in association with UNISYS on 17th April, 2020.
- Ideas on “Ready to Improve Online Education in India” were submitted to #BharatPadheOnline Portal by Dr. Aparna K, Mrs. Sridevi, Mr. Venkatesh and Mr. Shivakumara T on 17th April 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA attended Webinar Session followed by assessment on “Application Security beyond VAPT” organized by CS-CoE- Cyber Security Karnataka (CySecK) in association with KSCST, 24th April, 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA attended Webinar Session followed by assessment on “Cyber Security: Emergence of Software Defined Networking” organized by CS-CoE- Cyber Security Karnataka (CySecK) in association with CISCO, 30th April, 2020.
- Ms. M.Sridevi, Asst. Professor, Dept. of MCA has completed 4-weeks online course on “Applied Machine Learning in Python” offered by University of Michigan on Coursera, with 97% aggregate score, during April-May, 2020.

Applied Machine Learning in Python



Completed by **Mutyala Sridevi**
 May 10, 2020
 Grade Achieved: 97.8%

Mutyala Sridevi's account is verified. Coursera certifies their successful completion of Applied Machine Learning in Python.



Applied Machine Learning in Python
 University of Michigan
 4.6 (12 ratings) | 15K+ students enrolled

WHAT YOU WILL LEARN

- ✓ Describe how machine learning is different than descriptive statistics
- ✓ Create and evaluate data clusters
- ✓ Explain different approaches for creating predictive models
- ✓ Build features that most analysts need



COURSE CERTIFICATE

MUTYALA SRIDEVI

Applied Machine Learning in Python

COURSERA

- Mr. Sudarsanam P, Assistant Professor, Department of MCA participated in the online webinar on “Contemporary Tools and Techniques for Teachers and Researchers in Higher Education: Experience of using virtual classrooms” organized by the Cambridge Institute of Technology Bangalore on 9th May, 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA completed Webinar Session followed by assessment on “Network Security and Application Security”, organized by CS-CoE- Cyber Security Karnataka (CySecK) in association with CISCO on 13th May, 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA completed Webinar Session followed by assessment on “Blockchain and The Vedas Connection”, organized by CS-CoE- Cyber Security Karnataka (CySecK) in association with CIPHENSE on 27th May, 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA completed Webinar Session followed by assessment on “Security and Privacy in Cyber-Physical Systems” by CS-CoE-



Cyber Security Karnataka (CySecK) in association with KSCST, on 3rd June, 2020, Bangalore.

- Mr. Shivakumara T, Assistant Professor, Department of MCA attended online Webinar Session Series on “Microsoft Student Partners Create & Deploy a Chat-bot on Azure, deploy a Website, Competitive Coding Tips & Tricks with C++, Web Application Security and Classification of ML” held on 30th May to 14th June, 2020 at GNU Linux Users Group, Sir. MVIT, Bengaluru.
- Mr. Sudarsanam P, Assistant Professor, Department of MCA attended the webinar on “ How to Avoid Plagiarism using URKUND as a plagiarism tool “ organized by Mahendra Engineering college Namakkal, Tamil Nadu in association with eGalactic Maharashtra on 04th July, 2020.
- Mr. Shivakumara T, Assistant Professor, Department of MCA attended Online Pledge on “Spit-Free India Movement” held on 30th June, 2020 at Narayana Health, Bengaluru.
- Dr. Aparna K, Associate Professor & HoD, has successfully completed an online course on “Introduction to Data Analysis using Excel” by RICE University, offered by Coursera in July 2020.
- Mr. Venkatesh A, Assistant Professor, Dept. of MCA completed an online course on “Software Processes and Agile Practices” on Coursera platform, certified by the University of Alberta.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has received certificate of achievement after successfully completing the assessment and participating in the webinar on the topic “Patent-Tips & Tricks” on 04th July, 2020, organised by Department of MCA, Sir MVIT, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has received certificate of achievement after successfully completing the assessment and participating in the webinar on the topic “Malware Trends and Analysis” on 08th July, 2020, organised by CySecK-CS-CoE in association with McAfee, Bengaluru.
- Mr. Shivakumara T, Assistant Professor, Dept. of MCA has received certificate of achievement after successfully completing the assessment and participating in the webinar on the topic “Block chain Application Development Using Hyper ledger”, on 30th July, 2020, organised by Department of ISE, EPCET, Bengaluru.

Faculty Internship Details

Sl. no	Name	Internship venue	Date from - to
1	Dr. Aparna K	PAAGC Digital Web Academy	30/1/2020 to 4/2/2020
2	Mr. P Sudarsanam	Naberly Technologies Private Limited Bangalore	27/1/2020 to 10/2/2020
3	Dr. Aparna K	Nielsen Sports India Pvt. Ltd, Bengaluru	21/7/2020 to 25/7/2020
4	Mrs. Sridevi M	Trie Coders Pvt. Ltd., Bengaluru	14/7/2020 to 27/7/2020
5	Mr. Venkatesh A	VUsys, Bengaluru	17/7/2020 to 28/7/2020

**Parent-Teacher Meet**

- Parents Teachers Meeting was conducted by the Dept. of MCA on 24th April 2020.

Semester	No. of Parents communicated	Remarks
II	20	<ul style="list-style-type: none"> At the outset, the parents were enquired about the physical and mental health of their wards. All wards are safe and healthy.
IV	46	<ul style="list-style-type: none"> Some of the parents are worried of safety measures in place at the campus when the college opens. Parents informed that the students should be given enough time before they can write the internals.
VI	28	<ul style="list-style-type: none"> A couple of parents appreciated the efforts put in by the faculty members in conducting online classes and thereby keeping the students engaged.

Odd Semester 2019 – 20 Toppers

I Semester
Chaitra S
1BY19MCA12
SGPA 9.14



III Semester
Sahdev Kumar Gupta
1BY18MCA24
SGPA 8.71



V Semester
K Mahesh
1BY17MCA10
SGPA 8.35

Placement Training

A 10-day Placement training has been arranged for IV sem MCA students during the period of 24th February to 6th March, 2020. This is in collaboration with M/s. Dlithe, Bengaluru.



Students attending the placement training



- The student placement co-ordinators of pre-final year of Department of MCA participated in the Online Mock Interview (through GoogleMeet) organized by the Placement and Training Office on 19th April, 2020. The panellists were alumni of BMSIT&M. The students found this exercise very interesting and highly motivating.

Placement Details

Sl. No.	USN	Name	Recruiter
1	1BY17MCA05	BINDU D V	COGNIZANT(CYBER SECURITY)
2	1BY17MCA06	GAYATHRI E	COGNIZANT(CYBER SECURITY)



3	1BY17MCA08	JAYASHREE C S	NOKIA
4	1BY17MCA10	K MAHESH	NOKIA
5	1BY17MCA11	LAVANYA V	NOKIA
6	1BY17MCA17	RACHAMALLU CHAITANYA REDDY	CLIMBER
7	1BY17MCA18	ROHITH B	CHECKPOINT
8	1BY17MCA20	SAMAREEN ANWAR	COGNIZANT
9	1BY17MCA21	SANDEEPA H S	FIDELITY
10	1BY17MCA28	SWATHI Y M	IMTAC
11	1BY18MCA51	AJAY DATTAPPA SHINDHE	NOKIA
12	1BY18MCA53	ANNAPPA E G	TECH MAHINDRA
13	1BY18MCA54	APURVA VASIST K P	SOC GEN
14	1BY18MCA55	BARADWAJ	NOKIA
15	1BY18MCA58	DARSHAN BABU K C	CERNER
16	1BY18MCA62	G DIVYA	IMTAC
17	1BY18MCA65	HEMANTH R	NOKIA
18	1BY18MCA66	HIMABINDU S	COGNIZANT(CYBER SECURITY)
19	1BY18MCA69	KEERTHI S	NOKIA
20	1BY18MCA70	MAMTHA V	NOKIA
21	1BY18MCA73	MEGHASHREE B S	FIDELITY
22	1BY18MCA75	MUNI SWAMY B K	NOKIA
23	1BY18MCA80	PRATEEK KALLAPPA NAGANUR	SOC GEN

Co-Curricular Activity

- Dept. of MCA conducted Quiz on "Current Affairs" on 4th April, 2020 for II semester students with 87% participation.

IISemMCA

46 Graded - 0 Ungraded - 37 Not Turned in

AVERAGE SCORE

46%

12 / 25 points

MEDIUM SCORE

56%

14 / 25 points

HIGHEST SCORE

96%

24 / 25 points

QUESTION BREAKDOWN





Alumni Interaction

- Alumni interaction with students was held on 7th March 2020. Amongst us were alumni, Ms. Deepa, Mr. Vinayaka Murthy and Mr. Natesh Rao, of 2016-19 batch. They interacted with 2nd Sem MCA students and shared their experiences in the industry and gave valuable inputs to face interviews. Mr. Vinayaka Murthy is working in M/s. Philips, Bengaluru. Ms. Deepa is working as Applied R&D Engineer at Nokia, Bengaluru. All the three shared their experiences in their current domain and motivated students to concentrate on academics and placements.



Points to Ponder

Without adversity, we can never unleash our greatness – Paul G. Stoltz

Hardships often prepare ordinary people for an extraordinary destiny – C.S. Lewis

Adversity introduces a man to himself – Albert Einstein

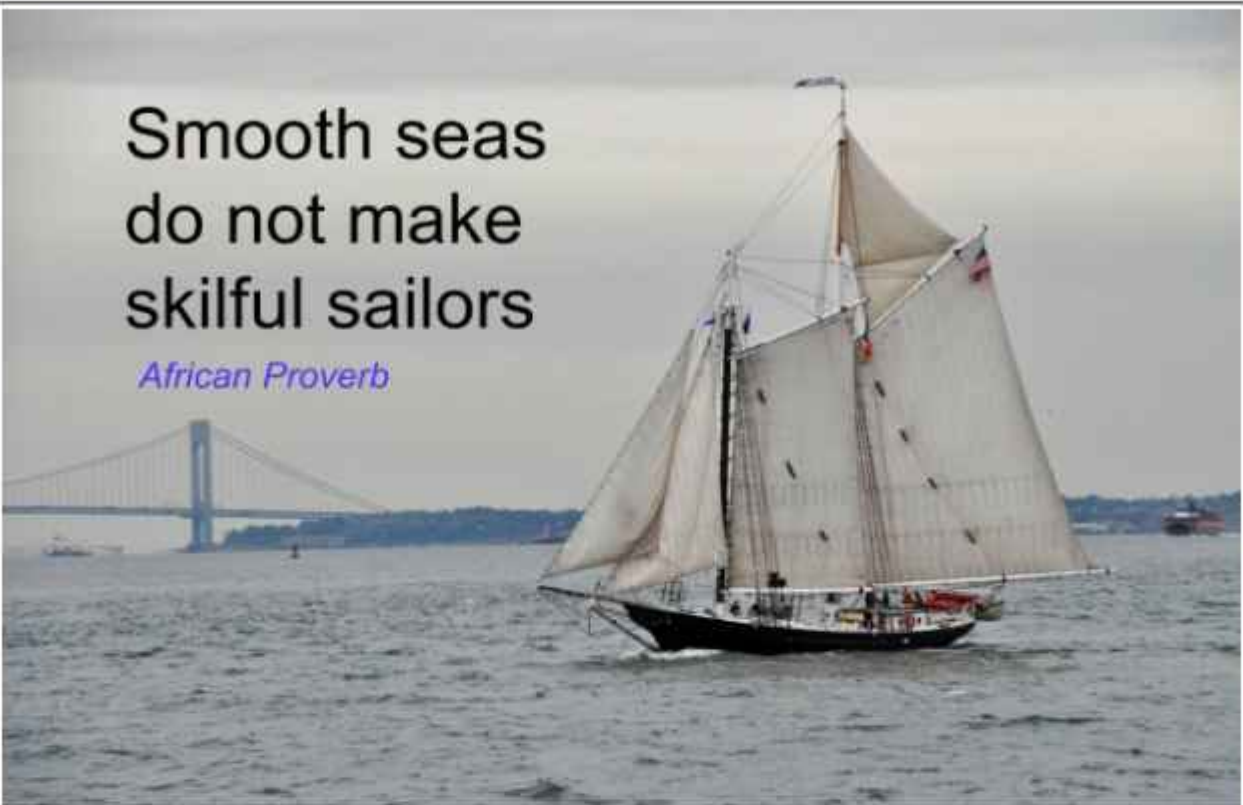
If you have always done it that way, it is probably wrong – Charles Kettering

Innovation is the ability to see change as an opportunity, not a threat – Steve Jobs



Smooth seas
do not make
skilful sailors

African Proverb



?? ? You are free to caption here. Imagination has no
bounds

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Ms. Nayana, IV Semester MCA

Adversity prompts us to question, to seek, to grow, and to evolve

This is how we tackled the pandemic



Adversity Quotient

"Turning obstacles into opportunities"