

From the Principal's Pen

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 fourth 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 BMSIT&M. 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.Arunkumar B.R.

Professor & Head
Dept. of MCA

GREETINGS FROM DEPT. OF MCA

It gives me an immense pleasure to share the 4th issue of the dept. newsletter, “Agratha, 2016-17” as a head of the dept. and chief editor.

Agratha show cases activities, progress and developments of the dept. from August 2016 to July 2017. Dept. has made a very good progress predominantly in teaching learning processes with outcomes based education model. Dept. has improved the best practices adopted such as Project/problem based learning, innovative/ cooperative teaching methods, case study based learning, open ended questions in Labs. Apart from TLP, dept. has made a good progress in university results, research, etc. Agratha presents you other details such as faculty internship, organization of expert talks, seminar, workshop and participation in conferences and partial delivery of classes, Dept. Advisory Board, participation in faculty development programmes and invited talks delivered.

I highly appreciate the dedication and team work shown by Ms. M. Sridevi, Asst. Professor & Editor, Mr. Muralidhara K.N, Technical Staff and student coordinators Mr. Preetham and Ms. Navya of III semester and Mr. Rohith B of I semester in bringing this newsletter at its best.

It is my honour and duty to express my gratitude to the Principal and Management for support and guidance in all our endeavours including the release of Agratha 2016-17.

I thank all those who contributed directly or indirectly in bringing out this newsletter.

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 six 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.

BMSIT&M has been elevated into NIRF (National Institutional Ranking Framework) Elite Club of Top 100 Institutions by securing 95th Position at National Level (8th in Karnataka, 5th in Bengaluru and only affiliated institution in Karnataka to reach top Rankings of NIRF). BMSIT&M has been accredited by the National Board of Accreditation (NBA), New Delhi.

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 six 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 2016-17, approximately the number of faculty members with Ph.D is 38, Ph.D scholars are 85.

The Institute is located on an 18.5 acres campus in Avalahalli Village, Doddaballapur-Yelahanka 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.

BMSIT&M is honoured with Outstanding Engineering Institute-South by Vijayavani National Leadership Award.

BMSIT&M is 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)

PEO1: Develop innovative IT applications to meet industrial and societal needs.

PEO2: Adapt themselves to the changing IT requirements through lifelong learning.

PEO3: Exhibit leadership skills and advance in their chosen career.

Programme Outcomes (POs)

PO1: Apply knowledge of computing fundamentals, computing specialization, mathematics and domain knowledge to provide IT solutions.

PO2: Identify, analyse and solve IT problems using fundamental principles of mathematics and computing sciences.

PO3: Design, develop and evaluate software solutions to meet societal and environmental concerns.

PO4: Conduct investigations of complex problems using research based knowledge and methods to provide valid conclusions.

PO5: Select and apply appropriate techniques and modern tools for complex computing activities.

PO6: Understand professional ethics, cyber regulations and responsibilities.

PO7: Involve in life-long learning for continual development as an IT professional.

PO8: Apply and demonstrate computing and management principles to manage projects in multidisciplinary environments by involving in different roles.

PO9: Comprehend and write effective reports and make quality presentations.

PO10: Understand the impact of IT solutions on socio-environmental issues.

PO11: Work collaboratively as a member or leader in multidisciplinary teams.

PO12: Identify potential business opportunities and innovate to create value for the society and seize that opportunity

About the Department:

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 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 90%, secured 9 VTU Ranks and placement of nearly 90% 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.

Dept. 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.

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 DBMS, Advanced Java Programming and Software Testing with objectives of understanding industrial application of the core subjects and current versions of the subjects.

Dept. of MCA has adopted several best practices as a part of its Teaching and Learning Processes (TLP) with OBE model like 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 and project/problem based learning.

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. Under the leadership of Dr.Arunkumar B.R., the department is growing step by step with his vast experience and enthusiasm. 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 No	Name of the staff member	Qualification	Designation	Research Area
1	Dr.Arunkumar B.R.	MCA, M. Phil., M.Tech. (CSE), Ph.D. (CS), PGDIPR (NLSIU)	Professor & HOD	Computer Networks, Data Science, Cloud Computing, Software Engineering & IPR
2	Mr. Ganesh P.	M.C.A.	Associate Professor	Cloud Computing
3	Ms.Aparna K.	M.C.A., M. Phil	Associate Professor	Data Mining
4	Mr.Nagabhushan S.V.	M.C.A.	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	Mr.Sudarsanam P.	M.C.A., M. Tech.	Assistant Professor	Grid Computing

Technical Staff

SL. No.	Name	Qualification	Designation
1	Mr.Shashikiran J.S.	DCSE	Instructor
2	Mr.Murulidhara K.N.	DCSE	Assistant Instructor

Professional Body Membership & Ph.D. Status Details

Sl No	Faculty Name	Designation	Membership Number	Ph. D. Status/ Research Guidance
1	Dr.Arunkumar B R	Professor & Head	MCSI-00135953 ISTE-LM 45448 LM CRSI L/181 MIAENG MISRN LMIETE M 500221	Guiding 05 Ph.D. research scholars
2	P Ganesh	Associate Professor	ISTE-LM52360	Completed Comprehensive viva
3	Aparna K	Associate Professor	CSI - LM00146827 ISTE - LM52361	Comprehensive viva: Completed
4	Mr.Nagabhushan S V	Assistant Professor	ORSI – Operation research Society of India -1215/L/N/16	Thesis submitted
5	Dwarakanath G V	Assistant Professor	ISTE LM 44209	Registration Completed
6	Shivakumara T	Assistant Professor	ISTE-LM92649	Course work: Completed
7	Reshma C R	Assistant Professor	ISTE, LM110654	Course work: Completed
8	Drakshveni G	Assistant Professor	CSTA	Course work: Completed
9	Nirupama B K	Assistant Professor	ISTE-LM93814 ISCA LM29016	Not yet Registered
10	Sridevi M	Assistant Professor	ISTE LM 52363 ISCA L29017	Course work: Completed
11	Venkatesh A	Assistant Professor	ISTE LM93723	Course work: Completed
12	Sudarsanam P	Assistant Professor	ISTE LM93724	Comprehensive viva: Completed

Research Initiatives in the department

- To organize Samshodhana Samvaada to share the knowledge within the faculty members of the department.
- To organize research lectures by speakers from Research & Development wings of institutes and industries of national importance to strengthen the research ambience in the department.
- A survey is made on the gaps inhibiting research among the faculty members and strategies were framed to overcome the obstacles.
- Individual research plan was prepared by each faculty member to set themselves a mission for the coming years and work with a focus and progress in their core research areas.
- Faculty member's internship in renowned research institutions.

Innovative teaching learning methods adopted

- **Comprehending** about a concept through Pick and Write event -Dr.Arunkumar B.R. for the course Operating Systems.
- **Mind maps** to remember the hierarchical complexity in the concepts – Ms.M.Sridevi for the course Software Engineering.
- **Crossword puzzles** to understand the concept in depth and yet to memorize each concept in simple terms – Ms.M.Sridevi for the course Advanced Java Programming.
- **Cognitive concept reminders** to avoid confusion between the similar concepts and elaborate the key words to present the concept efficiently - Ms.M.Sridevi for the course Software Engineering.
- **Crack the Code** sessions to think over the logic of the code and guess the output and subsequently validate it – Ms.M.Sridevi for the course Python Programming.

Collaborative/Cooperative learning methods adopted

- **Problem based learning** to apply theoretical concepts to the real world problems – Dr.Arunkumar B.R. for the course Object Oriented Modelling and Design Patterns.
- **Case Study based learning** – Ms.Drakshaveni for the course Software Testing, Mr.Shivakumara T for the course Java Programming, Ms.Nirupama B.K. for the course Network Cryptography and Security.
- **Role play** – Mr.Dwarakanath G.V. for the course Computer Networks.
- **Recap of completed chapters** by the students -Ms.Aparna K. for the subject Database Management Systems.
- **Poster preparation** – Ms.Reshma C.R. for the course NoSQL.
- **Project Based Learning** problems given to students by all the faculty members in topics related to the subjects but outside the syllabus and which serves as Value addition to the knowledge gained through the courses.

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.

Back 2 Basics Program

Designed to make a structured delivery of bridge courses to bring the students that would be admitted into MCA from diversified streams into the main stream of the program.

Department Advisory Board

The Department Advisory Board (2016-2018) formation was finalized in July, 2016 with the following members to meet at regular intervals to deliberate on various aspects such as current curriculum of the program, programme outcomes, curriculum gap, bridging the gap between academia and industry expectations, new Value Added Courses to be introduced, research initiatives, joint collaborations to progress in research and consultancy.

Sl. No	Name	Address	Contact Details	Designation
1	Dr. Arunkumar B R	Professor & Head, Department of MCA, BMSIT&M	E-Mail: arunkumarbr@bmsit.in	Chairman
2	Dr. Dinesha	Professor, IIITB, Bengaluru	E-Mail: dinesha@iiitb.ac.in Off. Ph: 080 - 41407777	Member (Academia)
3	Dr. Hanumanthappa M	Professor and Chairman, Department of Computer Science & Applications, Bangalore University, Bangalore.	E-Mail: hanu6572@hotmail.com E- Mail: hanu6572@bub.ernet.in Off. Ph: 080-22961451 / 22961454 Res. Ph: 080-23438168	Member (Academia)
4	Dr. Deepak D'Souza	Assistant Professor, Dept. of Computer Science & Automation, Indian Institute of Science, Bangalore.	Off. Ph: (+91-80) 2293 2468 Direct - 22933142 Fax - 2360 2911 Res. Ph: 2221 9759, 51120422 E-Mail: deepakd@csa.iisc.ernet.in	Member (Research)
5	Dr. Rajan M A	Research Scientist Innovation Labs, Tata Consultancy Services, Bengaluru	E-Mail: rajan.ma@tcs.com Ph: 080 67258558	Member (Research)
6	Mr. Mahabalesha C	Senior Technical Lead, TCS, Bengaluru	E-Mail: c.mahabalesha@tcs.com	Member (Industry)
7	Dr. Ramsuri Narayanam	Research Scientist, IBM Research, India	E-Mail: ramasurn@in.ibm.com	Member (Research)
8	Mr. Jagannath	Parent	-	Member (Parent)
9	Mr. P Ganesh	Associate Professor, Dept. of MCA, BMSIT&M	E-Mail: pganesh@bmsit.in	Member (Faculty)
10	Ms. Aparna K.	Assoc. Prof., Programme & Accreditation Coordinator, Dept. of MCA, BMSIT&M	E-Mail: aparnak@bmsit.in	Member (Faculty)
11	Mr. Bikram Panjekar	Alumni & Entrepreneur, Technical Lead - ABB	E-Mail: bpanjekar1985@gmail.com	Member (Alumni)

Staff Recognition

Dr.Arunkumar B.R was an examiner for Ph.D comprehensive Viva on 12-5-2017 at VTU Regional Office, Nagarabhavi, Bangalore, appointed by Registrar VTU.

Dr.Arunkumar B.R. &Mr.Nagabhushan S.V. participated as session chairs in the National Conference on Advances in Computing (NCAC-2017) on 26-5-2017 in the Dept. Of CSE & ISE at BMS Institute of Technology & Management, Bengaluru.

Ms.Aparna K, Associate Professor, has qualified in two online courses by NPTEL – “Introduction to Machine Learning” and “Developing Soft Skills and Personality”.

Ms.M.Sridevi, Asst. Professor, has qualified in the EdX online course “Using Python for Research” offered by Harvard University, USA by obtaining 93% aggregate.

Ms.Aparna K, Associate Professor, was invited as an external auditor for scrutinizing NBA related documents at BMSCE, Bengaluru on 3rd April 2017.

Mr.Shivakumara T was invited as a member of jury panel to judge the presentations in project exhibition in the Department of MCA, Sir M. VIT and Bengaluru on 26th May 2017.

Mr.Nagabhushan S V, Asst. professor, completed Ph.D. defence/ final viva-voce on May 19th, 2017 at R.V.College of Engineering.

Invited Talks delivered by faculty members of the department outside BMSIT&M

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| 1 | Dr.Arunkumar B.R., Professor & Head, Dept. of MCA, BMSIT&M has delivered the technical Session on “Research Inclinations in Mobile Ad HoC Networks” in the National Symposium, "Tech Manthana”, organized by Dept. of Computer Science, RJS First Grade College, Koramangala , 3rd Block, Bengaluru, on 15 th September, 2016. |
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| 2 | Ms.M.Sridevi, Asst. Professor, Dept. of MCA, BMSIT&M delivered a session on “Role of IT in Science Education & Research” to the Science Graduation students of Government First Grade College, Yelahanka, Bengaluru as part of the event “Anveshane” – A Science Forum Event, on 22 nd September, 2016. |
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- 3 Ms.Nirupama B.K. delivered a technical talk on “Development of Windows Form Application using C# .net Technology” on 27/10/2016 at Department of MCA, Sambram Institute of Technology, Bengaluru.



- 4 Drakshaveni G, Assistant professor, Department of MCA, BMSIT&M was a resource person for two days workshop on “Image processing using MATLAB tool” conducted on 3rd and 4th Febrary, 2017 at M S Ramaiah Arts,Science and Commerce College ,Bangalore.



- 5 Ms.Nirupama delivered a talk on “Importance of Education” for the students of Government school, Chickpet, Bidar on July 1st, 2017.



Invited Talks delivered by faculty members of the department within BMSIT&M

- 1 | Dr.Arunkumar B.R., HoD, Dept. of MCA, delivered a talk on “Vehicular Ad-Hoc Networks” in the Jnanavardhana program conducted at the institution level on 4th February, 2017.
- 2 | Mr.Shivakumara T., Assistant professor, Department of MCA, BMSIT&M was a session speaker in 5 day Faculty Development Program on “Numerical Simulation of Thermal Applications” and delivered a talk on “Computer Program – C language for Numerical Methods”, on 28th Jan, 2017 in the Department of ME, BMSIT&M.



- 3 | Mr.Shivakumara T was a resource person for 5 day “Yoga Training Classes” from 04th Feb to 10th Feb 2017 for the staff of BMSIT&M organized at the department of MCA, BMSIT&M



- 4 Mr.Shivakumara T was a resource Person for 4 day skill development program on “Application Development using JAVA” on 14th& 15th Feb 2017, organized by the Department of ISE, BMSIT&M.



- 5 Dr.Arunkumar B R presented a talk on “Transmission Power Analysis and Network partition in MANET” on 10-5-2017 as part of the “Jnanavardhana”, an innovative knowledge sharing programme.
- 6 Training program for 5 days on computer basics and MS Office was conducted from 6/2/2017 to 10/2/2017 for the hostel staff (supervisors and accounts clerks) for 90 minutes every day from 3:00PM to 4:30PM. 5 staffs from the hostel participated in the program.

SAMSHODHANA SAMVAADA

The department of MCA has organized research discussion under the title “**SamshodhanaSamvaada**”. This event provides a platform for all the faculty members to share their knowledge and deliberate on their area of research. The faculty members have given presentation on the following topics:

Sl. No.	Faculty	Topic
1	Dr. ArunKumar B R	Opportunistic networks: The case of Vehicular Ad Hoc Network
2	Aparna K	Data Redaction in Oracle RDBMS
3	Nagabhushan S V	Research Methodology
4	Dwarakanath G V	Cooperation in autonomous Vehicular Networks
5	Shivakumara T	Spirituality Practice-Enhancing ethical behavior in work place
6	Reshma C R	Underwater Acoustics
7	Drakshaveni G	MatLab
8	Nirupama	Cryptography and Network Security
9	Sridevi M	Social Media analytics and big data challenge
10	Venkatesh A	Understanding Mathematics
11	P Sudarsanam	Message Passing Interface

Research Papers published in International Journals

1	Dr.Arunkumar B R,Professor & HOD, MCA, BMSIT&M, Bangalore authored an education research article titled, Outcomes Based Education(OBE) Teaching-Learning Plan: A Case Study of Operating System Course “, the same has been published by the journal, IJMER (International Journal of Multidisciplinary Educational Research) , Volume: 6, Issue: 6(4), June 2017 with, ISSN: 2277-7881, JISRAF Impact Factor 4.527, Index Copernicus Value 5.16 & International Scientific Indexing Value: 2.286. pp.182-194.
2	M. Sridevi and Dr.Arunkumar B.R. published a paper titled "Role of Social Media in Health Care Domain: An Integrated Review" in the International Journal of Engineering Research and Applications (IJERA), Volume-7, Issue-6, June 2017, Pg. 49-54, ISSN: 2248-9622 with Impact Factor 5.179 and IC Value 45.98. DOI: 10.9790/9622-0706014954, UGC Approved Journal (S.No. 4525).

Research Papers presented in the International Conferences

1	Dr.Arunkumar B.R. presented a paper titled “Transmission Power Analysis of K-Connected MANETS” in the 2 nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT – 2017) organized by the Department of Electronics & Communication Engineering, Sri Venkateshwara College of Engineering, Bengaluru on 19 th – 20 th May, 2017. IEEE XPLORE ISBN: 978-1-5090-3704-9.
2	Ms.Aparna K, Associate Professor, Dept. of MCA, presented research paper titled “A Pragmatic Approach for Multi-Dimensional Data Clustering” at The 8 th IEEEInternational Conference on Computing, Communication and Networking Technologies held at IIT, Delhi on 3 rd to 5 th July 2017.

Research Papers presented in the National Conferences

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| 1 | Mr.Shivakumara T. presented a paper titled “Smart Garbage Collection in Smart Cities of India” in the National Conference on Advances in Computing (NCAC-2017) on 26-5-2017 in the Dept. of CSE & ISE at BMS Institute of Technology & Management, Bengaluru. The same paper was selected in the project exhibition competition, which was held at Oxford College of Engineering, Bengaluru on 26-5-2017. |
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Faculty Participation in Workshops:

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| 1 | M.Sridevi, Venkatesh V.A., Drakshaveni G., Aparna K., Dwarakanath G.V., Shivakumara S.K., Nirupama B.K., SUDarsanam P., attended a Six Days FDP on “ETL and Data Analytics using Informatica and Python” organized by Dept. of ISE at BMSIT&M from 23 rd to 30 th Jan 2017. The workshop helped the faculty members to learn the Informatica tool and Python with hands-on sessions and well organized lectures from resource persons from the academics and industry. |
| 2 | Shivakumara T. attended a Five day program on “Advances in Engineering Mathematical Models” organized by the Innovation Center, BMSIT&M during 9 th to 13 th Jan, 2017. |
| 3 | M.Sridevi, IPR Coordinator, Reshma C.R., Nirupama B.K., Shivakumara T., and Drakshaveni G attended the one day workshop on “Intellectual Property Rights, Driving Patents and Profitability in an Innovation Economy”, held on 22 nd Feb 2017 organized by BMSIT&M in association with Visvesvaraya Trade Promotion Centre (VTPC), Department of Industries & Commerce, Govt. Of Karnataka. |

Faculty Internship Details:

Sl. No	NAME	INTERNSHIP VENUE	INDUSTRY CONTACT PERSON AND PHONE NUMBER	DATE FROM - TO	OUTCOME	HOW IT WILL BE TAKEN FORWARD
1	Dr.Arun Kumar B.R	Volvo	Mr Indushekar, 9731398830	19/6/2017 to 30/6/2017	Learnt about ERP, VPS, 5S	Mentoring Projects
2	Dr.Nagabhushan S.V	Volvo	Mr Indushekar, 9731398830	20/6/2017 to 30/6/2017	Learnt about ERP, VPS, 5S	Projects and papers
3	Sudersanam.p	XPIO technologies	Mr Ravi,9008733112	22/6/2017 to 3/7/2017	Learnt about dot net	Mentoring Projects
4	Dwarkanath	XPIO technologies	Mr Ravi,9008733112	23/6/2017 to 3/7/2017	Learnt about Mobile applications	Mentoring Projects
5	Shivkumara T	Appzuipt Ltd	Mr.Vijaykumar, 9845292334	13/6/2017 to 26/6/2017	Learnt about various web technologies	Enable to reduce the gap

6	P.Ganesh	Srinidhi Innovative InfoSoft Pvt Ltd	Srinivasa Reddy,9900977166	3/7/2017 to 14/7/2017	Learnt about current trends in IT	Mentoring Projects
7	A.Venkatesh	Temple Technologies	Mr Mahesh	5/6/2017 to 19/6/2017	Learnt about testing	Mentoring Projects
8	Aparna	IkonTel Solutions Pvt Ltd	Mr Prabeen Kumar,08041285080	12/6/2017 to 22/6/2017	Learnt about automated communication networks	Industry - Institute collaborations
9	Nirupama	ARC Document Solution India Private Limited	Prasanna 09663819226	2/1/2017 to 16/1/2017	Learnt Abacus Tools and done manual testing	Mentoring Projects
10	Drakshaveni G	SlapuriPremia	Naveen kumar 7019224180	28th to 30th Dec 2016, 2nd, 5th, 9 to 13 Jan 2017	It helped me to understand better open source software testing tools	Internship opportunity to students
11	Reshma C R	WTC, Yeshwantpur	Ravikumar 080 2265 8730	9/1/2017 to 21/1/2017	Explored different wireless network protocols & management	Useful for research work
12	M.Sridevi	TIFR	Tata Institute of Fundamental Research		Understood importance of Statistics in Data Analytics, Explored opportunities for joint research	Joint research and proposals for funding

Details of the resource persons visited the department in 2016-2017:

SL	NAME OF THE RESOURCE PERSON WITH ADDRESS	VISITED FOR WORKSHOP/ SEMINAR/ INVITED TALK	DATE OF VISIT
1	Mr. Vijay P. Founder and CEO, and Mr.Arvind J, Digital Lead, APPZUI	MOU and Expert Talk	21/2/2017
2	Mr.Dattatreya S Vellal EXETER GROUP	Invited talk on “I failed 26 interviews before I got my dream job!”	24/9/2016
3	Mr. Leo Antony Alumni of BMSIT&M working in Cerner	Technical session on “Linux administration”	17/9/2016
4	Mr.Suraj Jana Alumni of BMSIT&M	EXPERT TALK Cloud Computing (hands-on)	12/11/2016
5	Dr Vasudevamurthy Tata Institute of Fundamental Research (TIFR)	EXPERT TALK “Mathematical Modelling Concepts”.	17/2/2017
6	Mr.PundrikVinayak Senior Software Engineer, IBM	EXPERT TALK “Impact of Big Data &Hadoop in the real world”	25/2/2017
7	Mr.Satyanarayan and Mrs. Asha Satyanarayan	EXPERT TALK “Life Skills: Managing Relationships and Stress”	9/3/2017
8	Dr Vittal Rao Indian Institute of Fundamental Research (IISc),	EXPERT TALK “Linear Algebra and Modelling”	11/3/2017
9	Mr. Leo Antony Alumni of BMSIT&M working in Cerner	EXPERT TALK “Linux Administration”	25/3/2017
10	Mrs.Geethavani RIA, Bangalore	Partial Delivery In Software Testing	8-10 MAY 2017

MOUs

The department of MCA signed a MoU with the AppZui Technologies Pvt. Ltd. for setting up their lab in the department. The objectives of the lab include the overall development of the student to make him industry ready, and providing digital accelerators to transform ideas into marketable products. Student internships will be provided by the company to work in the campus and provide mentoring to the students to take up their ideas to become entrepreneurs. The team from BMSIT&M and AppZui met on 21st Feb, 2017 to discuss on the next 6 months plan to start the work in the BMSIT&M and AppZui Industry Lab.



Dr. Mohan Babu G.N., Principal , Dr.Arunkumar B.R., HoD-MCA, Ms.M.Sridevi, Industry Lab Coordinator from BMSIT&M handing over the signed MoU to the AppZui team Mr. Vijay P., Founder and CEO, and Mr.Arvind J, Digital Lead

Books Authored by Faculty Members:

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|---|---|
| 1 | Mr.Shivakumara obtained the authorship certificate, for the valuable contribution for the book titled “Object Oriented Programming Using C++”, ISBN: 978-93-83922-23-9. |
| 2 | Dr.Arunkumar B.R. authored a book titled “Application of Graph Theory Concepts to MANET Cross Layer Multicasting” published by Lambert Academic Publishing. |

Workshops organized by the Department

- | | |
|---|---|
| 1 | A workshop on “Android Studio to develop Android OS applications for mobiles” was conducted by the Department of MCA, BMSIT&M in association with Aestas Software Solutions Pvt. Ltd. from 26/12/2016 to 5/01/2017 for the staff & students (III semester). The android application development is not included in MCA curriculum which is a curriculum gap for the student. Therefore department of MCA had planned to conduct additional course for students with the help of which the students can able to learn android tool and develop applications which will increase their competencies in the application development. |
| 2 | The NAAC awareness program for students was conducted by the Department of MCA staff Mr.Nagabushan, Ms.Drakshaveni and Mr.Venkatesh on 5/5/2017. It was followed by presentation and quiz. |



Expert Talks Organized

- 1 Mr.Dattatreya S Vellal delivered a talk on “I failed 26 interviews before I got my dream job!” on 24th September, 2016 to the students of all semesters of MCA.



- 2 Mr. Leo Antony, Alumni of BMSIT&M working in Cerner, India delivered a technical session on “Linux administration” on 17th Sep, 2016 to students of 3rd and 5th semester MCA



- 3 A session was conducted on Cloud Computing (hands-on) by Mr.Suraj Jana, Alumni of BMSIT&M on 12th November, 2016. In the session he mainly concentrated on cloud technologies.

- 4 Centre for Mathematical Modelling and Simulation, Department of MCA organized an expert talk by Dr.Vasudevamurthy from Tata Institute of Fundamental Research (TIFR) on “Mathematical Modelling Concepts” on 17th Feb, 2017.

- 5 Centre for Mathematical Modelling and Simulation, Department of MCA organized an expert talk by Dr. Ramachandran from Indian Institute of Science (IISc) on “Discrete Optimization” on 23rd Feb, 2017.



- 6 Department of MCA organized alumni talk titled “Impact of Big Data & Hadoop in the real world” by Mr.Pundrik Vinayak, 2009-12 Batch, Senior Software Engineer, IBM, Bengaluru on 25th Feb, 2017 for Students of 2nd and 4th semester MCA



- 7 An expert talk on “Life Skills: Managing Relationships and Stress” was organized by the Dept. of MCA on March 9th, 2017 which received a huge response from the students. The resource person Mr.Satyanarayan and Mrs. Asha Satyanarayan spoke on managing relationships which would be the prologue to managing any other issue that may arise in their life as well as career.



- 8 Centre for Mathematical Modelling and Simulation, Department of MCA organized an expert talk on 11th March, 2017. Dr VittalRao from Indian Institute of Science (IISc), Bengaluru delivered the session on “Linear Algebra and Modelling”.



- 9 A Guest Lecture was organized titled “Linux Administration”, and the speaker was Mr. Leo Antony (2011-14 batch MCA Alumni), System Engineer, Cerner India Limited, Bengaluru on 25th March, 2017 for audience are 2nd& 4th Semester MCA students.



- 10 Mr. Manoj Keshav, Alumnus of the Batch 2011-14 who is currently pursuing Masters in Computer Science (Specialization in Software Technology and Information Systems) and graduating in the year 2017 from University of Paderborn, Germany, has interacted with 2nd& 4th Semester MCA students. He has given valuable inputs to the students.

Partial Delivery of courses:

The Partial Delivery of the course for Software Testing was conducted as per the following schedule by the resource person Mrs.Geethavani, RIA, Bangalore. The following topics were covered -

Sl No	Topic	Date	Time
1	Configuration of the tool selenium and Introduction of tool	8/5/2017	2:30-4:30
2	Selenium web drivers	9/5/2017	2:30-4:30
3	Execution of simple program using Selenium tool	10/5/2017	10.55-12.50



Partial delivery of class to the students



Students interacting with the speaker

D-Space:

BMSIT&M Institutional Repository has been established using DSpace 5.5 version. It is available throughout the campus. Faculty can upload / view / download articles, notes and case studies. Student can access the OPAC, institutional repositories and digital library 24/7 from anywhere in the campus with any device that supports Wi-Fi connectivity through this IP address <http://100.127.2.254>.

Department co-curricular and extracurricular activities:

NSS blood donation camp was organized at the institutional level on 23/2/2017. The students of MCA from both 2nd& 4th Semester participated in the event. Total 15 students of MCA donated blood.



Students of MCA getting their blood check-up

Academic Social Responsibility

Dept. of MCA organized “Thanks Giving Day” on March 2nd, 2017 as part of “Joy of Giving” initiative to thank all the community helpers in the campus for their invaluable services. The objectives of the program are:

- To experience the happiness in Thanks Giving and thus add new energy to oneself.
- To uphold the fraternity, show gratitude and appreciate the dignity of labour.
- To make a day memorable to everyone involved.
- To break the monotony and remove the indifference in students.



IV Semester MCA student thanking the Gardening Staff

- The department of MCA organized “A STEP to Kindness” program for collecting the footwear that is not being used by the students and distribute it to the needy. This event started on 17/5/2017 and continued till 19/5/2017. The distribution is scheduled on May 31st, 2017. The footwear was accepted in any condition which was mended by the cobbler engaged by us on 20/5/2017 to bring them to usable condition.

The objectives of this program are as follows:

- To create awareness in the students to increase the utility of any type of extra accumulated things in their house by distributing them to the people in need of them.
- To boost new energy in students before exams by doing some sensible activity that will make them feel elated.
- To actually meet the need of people who can’t afford to buy the footwear.



Cobbler mending the footwear

Parent Teachers Meet

1. First Parents – Teachers Meet was organized by the Department of MCA on 05.11.2016 to discuss the performance of their wards in the current semester. At the outset, the HOD of the Department, Dr.Arunkumar B R welcomed all the parents. All the faculty members including Class Coordinators of I, III & V sem and Proctors of all students were present for the meet. The faculty members interacted with the parents about their ward's attendance status and internal marks. The PTM Coordinator of the Department, Ms.Aparna K, Associate Professor, thanked all the parents for making it up.



Faculty members interacting with Parents

2. Second Parents – Teachers Meet was organized by the Department of MCA on 06.05.2017 to discuss the performance of their wards in the current semester. At the outset, the HOD of the Department, Dr.Arunkumar B R welcomed all the parents. All the faculty members including Class Coordinators of II, IV & VI sem and Proctors of all students were present for the meet. The faculty members interacted with the parents about their ward's attendance status and internal marks. The PTM Coordinator of the Department, Ms.Aparna K, Associate Professor, thanked all the parents for making it up.



Semester Toppers:**ODD Sem. 2016**

Semester	USN	Name	Percentage
I	1BY16MCA09	Deepa	8.23 SGPA
	1BY16MCA29	Pavana K M	7.92 SGPA
III	1BY15MCA34	Raj Niranjana	84.86
	1BY15MCA46	Sweetyladia	84.10
V	1BY14MCA26	N. S. Anusha	79.62
	1BY15MCA77	Ramanand R Hegde	78.86

EVEN Sem. 2017

Semester	USN	Name	Percentage
II	1BY16MCA45	Sujatha D	8.31 SGPA
	1BY16MCA29	Pavana K M	8.23 SGPA
IV	1BY15MCA34	Raj Niranjana	82.10
	1BY15MCA46	Sweetyladia	80.38
VI	1BY14MCA33	Shrinidhi Dixit	98.8
	1BY14MCA01	A. Medha	98

Industry – Institute Interaction:

1	Mr. Vijay, CEO, AppZui Technologies Pvt. Ltd., Mr.ArvindJayaraman, Marketing Head, Appzui, and Mr.Vinod T.K., Developer, AppZui and Alumni of BMSIT interacted with the students 3 rd November, 2016 between 10.55A.M to 01.45P.M regarding career path, briefed about their company, internship opportunities they provide and skill sets they are looking for. Further, they had discussions with the department to set up the industry lab in BMSIT campus to provide accelerators for transforming ideas to business and also help students in this process.
2	Mr.Shivakumara T participated in the industrial visit to ISRO, Space Device Testing Unit, Marathalli, Bengaluru.
3	Mrs.M.Sridevi and Mrs.Reshma C.R. participated in the Indian Machine Tools Exhibition (IMTEX-2017) at BIEC, Bengaluru for South East Asia with the presence of leading national and international manufacturing firms from the metal forming sector on Jan 31 st , 2017.
4	Ms.M.Sridevi participated in the CII Yi National Entrepreneurship Summit 2017: 5 th Edition with the theme DISRUPT.IN – Challenging Tradition, Transforming World, organized at Hotel Vivanta by Taj, Bengaluru on 11 th March, 2017.
5	TCS Industrial Visit was organized on 18-05-2017. This visit was organized for the benefit of students of 4 th Semester MCA to make them aware of current software industrial research activities and initiatives. Total 37 students and two faculty members of MCA - Mr.Shivakumara T &Mr.Sudarshanam P participated in the event. Mr.Swagat from Research Division, TCS, disseminated his industrial projects based on Robotics (PO5), and also shared his experience about the complete automation of inventory and

distribution services, agricultural-M Krishi, Environmental Resource utilization etc. (PO10).



Placement Details:

SL. No	USN	Name	Company
1	1BY14MCA03	AKHIL MISRI	CLOUDTHAT
2	1BY14MCA04	ARCHISHMAN CHOUDHURY	MINDTREE
3	1BY14MCA15	SACHINKUMAR KS	SIMEIO
4	1BY14MCA18	VASUKI MS	CERNER
5	1BY14MCA19	MANISHA SHANKAR CHANDU	SIMEIO
6	1BY14MCA25	SOUMYA N	CERNER
7	1BY14MCA28	SHAILAJA R	L AND T INFOTECH
8	1BY14MCA31	SHARANABASAWA	SIMEIO
9	1BY15MCA77	RAMANAND R HEGDE	CERNER
10	1BY14MCA01	MEDHA.A	iFOCUS
11	1BY14MCA02	ABHISHEK	iFOCUS
12	1BY14MCA26	ANUSHA.N.S	iFOCUS
13	1BY14MCA27	PRADEEP DAMODHAR	CSM SOFTWARE
14	1BY14MCA29	ROHIT KUMAR	iFOCUS
15	1BY14MCA33	SHRINIDHI DIXIT	FIDELITY
16	1BY14MCA35	RAGHAVENDRA T.A	FIDELITY
17	1BY15MCA80	SUSHAMA S C	iFOCUS

Memorable Moments

- The Annual Alumni Meet-2017 was organized on 28-01-2017 along with the student alumni coordinators Ms.Sweety Ladia, Mr.Alok kumar & team – 4th Semester MCA, Ms.Pavitra – 2nd Semester MCA. In this event the 2009 batch passed out graduates were felicitated.

