

**BMS Institute of Technology and Management
Yelahanka Bengaluru -560064**

**Department of Information Science and
Engineering**



JNAN

JULY - DECEMBER 2018 | VOLUME-3 | ISSUE-3



Bi-Annual News letter

FROM THE PRINCIPALS' DESK



It gives me immense pleasure to share my feelings with you on the occasion of the publication of the second issue of JNAN, a newsletter of the Department of Information Science and Engineering.

A good team of people does not allow the things to happen for themselves. They make things to happen in the way they want. This department will stand as an example. I am glad to know that all the faculty and staff members along with students are toiling hard to build a very competent department. I understand that they have no hesitation to try new ideas and learn from experiences. Having embarked upon Outcome based Education, they need to keep expanding their horizons, and hone their knowledge and skills.

A superb alignment is seen among the goals of the Management, faculty and 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 on par with international standards. I am confident that the department utilizes the resources provided in a best possible manner to realize its educational objectives.

On the occasion of the release of this newsletter, I appreciate all those who have made intellectual contributions to it. I congratulate the editorial team for having put their best to bring out this outstanding piece of work.

Dr. Mohan Babu G N.
Principal

FROM THE HODS' DESK



It's my indeed pleasure to share my thoughts about the department of information science and engineering for the newsletter JNAN - Volume-3 and Issue-3 for the period July-2018- December-2018.

The department of information science and engineering is striving hard towards academic excellence with lot of best practices such as videos for all the laboratory sessions, and YouTube channel, E-learning platform for placement practice tests and we encourage students to undergo internship at reputed organizations during the semester break.

I am happy to share that the ISE UG-Program is accredited by National Board of Accreditation for the period of 3 Years and valid up to 31-JUN-2021. I am cheerful to share that all the faculty and staff members along with students are striving hard to build a very competent department. We introspect our self and try to tweak our processes Year on Year. We focus to make our vision to come true in next 5 years' time and will ensure the department of information science will be role model at the university level with respect to student outcomes, best practices and faculty intellectual capabilities.

We thank Management, faculty, staff members and students of the Department of Information science and engineering. Management has been very magnanimous to support all our endeavours to provide a wholesome personality to students, and equip them with skills on par with international standards.

My personnel thanks to my entire ISE Family for aligning with the vision of the department and brining this newsletter on time.

Dr. Manjunath T N.
HOD

BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

VISION

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

MISSION

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

ABOUT INSTITUTION

In view of the growing demand for technical education and with the goal of establishing a premier technical education on par with international standards, a new technical institution by name 'BMS Institute of Technology and Management' was established in 2002. Institution is accredited by NAAC all the programs in the institution are NBA accredited. Currently, BMSIT & M offers seven UG, three PG programs and Ph.D. /M.Sc. (Engg.) in seven disciplines. BMSIT & M considers research to be of equal importance as academics for the betterment of an institution. Research culture has been embraced well by the faculty members and research scholars at BMSIT and M. In this report, we present an overview of the research activities of Information Science and Engineering, BMSIT & M.



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

VISION

Emerge as centre of learning in the field of information science & engineering with technical competency to serve the society.

MISSION

To provide excellent learning environment through Balanced Curriculum, Best Teaching Methods, Innovation, Mentoring and Industry Institute Interaction.

ABOUT DEPARTMENT

The Department of Information Science and Engineering started in the Year 2010 with an approved intake of 60. The Department has qualified and professionally dedicated faculty member practice OBE in the academic deliverables. The faculties have published research articles in various National, International, IEEE Conferences and Journals.

The department has modern laboratories to serve the teaching and research needs of the students as well as faculty members. The Department has been organizing conferences, workshops, expert lectures and student centric activities to encourage students and faculty to instil lifelong learning. Few of our students are working for consultancy projects along with few faculty members. The staffs are encouraged to attend the 10 days internship to bridge the gap between the academics and industry. The department has admirable research ambiance.

THE EDITORIAL BOARD

Honorary Editor:

Dr. Manjunath T. N

Editors:

Dr. Pushpa S. K

Mrs. Arpitha H M

PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)

PEO-1: Successful professional career in Information Science and Technology.

PEO-2: Pursue higher studies & research for advancement of knowledge in IT industry

PEO-3: Exhibit professionalism and team work with social concern.

PROGRAMME OUTCOMES (PO's)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSO's)

PSO-1: Apply the knowledge of information technology to develop software solutions.

PSO-2: Design and Develop hardware systems, manage and monitor resources in the product life cycle.



FACULTY

Sl.No	Faculty Name	Qualification	Designation
1	Dr.Manjunath T N.	Ph.D,	Professor & Head
2	Dr. S.K. Pushpa	M. E. Ph. D	Associate Professor
3	Dr. Usha B A	M. Tech, Ph. D	Associate Professor
4	Mrs.Ashwini N.	M. Tech, (Ph. D)	Assistant Professor
5	Mrs.Mahalakshmi S.	M. E , (Ph. D)	Assistant Professor
6	Mrs. Shanti D.L.	M. Tech, (Ph. D)	Assistant Professor
7	Mr.Chandrashekhara K.T.	M. Tech, (Ph. D)	Assistant Professor
8	Mr.GireeshBabu C N	M. Tech, (Ph. D)	Assistant Professor
9	Ms.Bhavya G.	M. Tech,	Assistant Professor
10	Ms.AmbikaRani Subhash	B.E., M. Sc,	Assistant Professor
11	Mrs.Vinutha K.	M. Tech, (Ph. D)	Assistant Professor
12	Mrs.Swetha M.S.	M. Tech, (Ph. D)	Assistant Professor
13	Mrs.Veena N.	M. Tech, (Ph. D)	Assistant Professor

TECHNICAL STAFF

Sl.No	Name	Qualification	Designation
1	Mr. P Ashok Kumar	DCSE(BSc)	Assistant Instructor
2	Mr.Raju	DCSE, (BE)	Assistant Instructor
3	Mrs. Arpitha H M	DECE, BE	Assistant Instructor
4	Mrs. Amudha T	B.E,M.Sc(IT)(Ph.D)	Programmer

CONTENT

Sl. No	Topics	Page No
1	Workshops conducted	9-10
2	Expert Talks	10-11
3	MOUs/Awards/Recognitions	12-13
4	Parent – Teacher Meeting	13
5	Industry Institute Interaction, FDP/Workshops Attended,	14-15
6	Faculty Internship	15
7	Departmental Co-curricular Activities	16-18
8	Student –Internship Details	19-21
9	Research paper	21-22
10	Placement Activity	22-24
11	Sports	24
12	Student Achievements	24-26

Workshops conducted

Five Day FDP on “**Machine Learning with Python**” was held on 23rd to 27th July 2018. Mr.Sunder, Vice President, Accenture, delivered a keynote address.



Lightening the Lamp



HoD ISE, addressing the event

Three days Orientation was conducted on 9th August to 11th August 2018 for 3rd semester students

Two days' Skill development program on **HANDS ON CLOUD COMPUTING**” on 26th and 27th October 2018 for 5th semester students of all the Department (ISE, CSE, ECE & EEE).



Group Photo of SDP

Dr. Usha B A coordinated for conducting Innovation Led Entrepreneurship Workshop on 28th Sept, 2018 in association with Rotary, BMSIT

BMS Institute of Technology and Management organized a talk on Machine Learning and Image Processing. Resource person was Dr. Santosh K C, Assistant Professor, Department of Computer Science, University of South Dalkota (USD).



Participants



HoD ISE presenting memento to Dr Santosh K C

Expert Talks

Dr. Pushpa S. K delivered a talk on “Machine Learning Algorithms for current scenario” Open Course Conducted on “Machine learning using python” dated 02-07 August 2018.

Dr. Usha B A delivered a talk on “Research avenues in Machine learning using Python” Open Course conducted during 02-07 August 2018.

Mr. Gireesh Babu C N delivered a talk on “K-Nearest Neighbor algorithm” in “Machine learning using python” Open Course conducted during 02-07 August 2018.



A session by Mr. Gireesh Babu C N



A talk on “Career Guidance on Higher Studies” for 7th semester students was conducted by Byju’s on 20th August 2018.

Prof. Gireesh Babu C N and Prof. Vinutha K conducted one day workshop on “Machine Learning Laboratory” in Sapthagiri College of Engineering” , Bengaluru - 19th November 2018.



Mrs. Vinutha K at SCE



Mr. Gireesh Babu C N handling a session at SCE

Prof. Gireesh Babu C N and Prof. Vinutha K delivered a talk on “Machine Learning Techniques” in RRIT, Bengaluru - 30th November 2018.



Mr. Gireesh Babu C N at RRIT

MoUs / Awards / Recognitions

1. Dr. Usha B A represented the Department as a coordinators in Signing an MOU with Nihon Communication Systems(NCS) on 25th July 2018.
2. Dr. Manjunath T N is working as review committee member for International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) December 21-22, 2018, Solapur University, Solapur, Maharashtra state, INDIA and reviewed 10 papers.
3. Dr. Usha B A is working as review committee member for International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) December 21-22, 2018, Solapur University, Solapur, Maharashtra state, INDIA and reviewed 3 papers.
4. Prof.S.Mahalakshmi is a member of review committee of IEEE sponsored International Conference on Wireless Networks & Embedded Systems (WECON-2018) at chitkara university, Punjab and reviewed 5 papers.
5. Mr. Gireesh Babu C N is a member of review committee of International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) December 21-22, 2018, Solapur University, Solapur, Maharashtra state, INDIA and reviewed 3 papers.
6. Mr. Chandrashekhara K T is a member of review committee of International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) December 21-22, 2018, Solapur University, Solapur, Maharashtra state, INDIA and reviewed 2 papers.
7. Dr. Pushpa S. K is working as review committee member for International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) December 21-22, 2018, Solapur University, Solapur, Maharashtra state, INDIA and reviewed 3 papers.
8. Dr. Usha B A worked for twenty one days as coordinator in conducting 1st Year Induction Program.
9. Dr. Usha B A, Prof Ashwini along with First Year Students Visited Sri Sri Ravishankar Ashram on 16th Aug 2018 as a part on 1st Year Induction Program.
10. Prof.S.Mahalakshmi has reviewed technical papers for **IEEE sponsored 6th International conference on “Wireless Networks & Embedded Systems(WECON-2018) organized by Chitkara University, Punjab on 16th & 17th November, 2018**



BMS Institute of Technology and Management organized a discussion on Foreign University Collaboration by Dr. Ajay Gupta, Department of Computer Science, Old Dominion University. He had an interaction with the Principal & students of BMSIT & M



Discussion with principal



Interaction with the students

Parent-Teachers meeting

The parent teacher meeting for 1st and 2nd Year ISE department was held on 3rd November 2018 in ISE Seminar hall at 10.00 am To 1:30 pm. There were 50 parents who attended the meeting. Dr. Manjunath T N, HOD, Department of ISE, BMSIT&M addressed parents the importance of parents teachers meeting, took feedback from the parents about their wards performance. HoD's address was followed by one-to-one interaction with parents and their respective proctors. The parents gave very good feedback. Over all programmes went on well and also parents appreciated teacher ward system.



Industry – Institute Interaction

- Dr.Usha B A visited nearly eight companies in Doddaballapura, Bidadi and Peenya Industrial area as Industry Institute Interaction Coordinator.
- Dr. Usha B A, Interacted with Trinity NDT Engineers in seeking consultancy work.
- Dr. Usha B A coordinated with IBM in having Center of Excellence in Data Analytics and Machine Learning

FDP/Workshop Attended

- Prof Shanthi D L and Prof Bhavya G, attended IEEE young Professionals DEEP LEARNING BOOTCAMP on 7th July 2018, at BMSCE, Bengaluru.



Group photo of FDP on BOOTCAMP

- Mrs. Bhavya G and Vinutha K attended 6 days FDP on “Machine Learning with Python” from 9th to 14th July 2018 conducted by Cambridge Institute of Technology, Bangalore.
- Mrs. Arpitha H M, attended 6 days FDP on “Professionalism and Skill development” from 2nd to 7th July 2018, conducted by BMS college of engineering, Bengaluru.
- Mrs. Amudha T and Raju T, attended 3 days workshop on Web Technology and its applications at SJBIT, Bangalore from 16th July 2017 to 18th July 2018
- Mr. P. Ashok Kumar attended Three days Workshop for Technical Staff on “Hands on practice in Machine learning lab and Ubuntu workstations as a Server and Client “ during 12th to 14th July 2018 at SJBIT, Bangalore.



- Ms.Anushree B.N attended 2 days workshop on “SELENIUM TESTING TOOL” from June 2018 26th and 27th conducted by RVCE, Bangalore.
- Mrs Swetha M S attended one day online Conference on “AWSOME DAY ONLINE CONFERENCE” on 31st October 2018
- Prof. Gireesh Babu C N, completed NPTEL-AICTE FDP and online course on “Introduction to Machine Learning” during Aug-Oct 2018.
- Prof.S.Mahalakshmi has completed 4 weeks NPTEL online course on Design and Pedagogy of the Introductory Programming Course during Aug-Sep 2018.
- Prof Shanthi D L has completed 8 weeks NPTEL online course on Cloud Computing during Aug-Sep 2018.
- Prof Shanthi D L has Completed 12 weeks NPTEL online course on Computer Networks and Protocols during July- Oct-2018.
- Prof Shanthi D L has completed one week FDP on Cloud Computing from NPTEL during Aug-Sep 2018

Faculty Internship:-

Sl . No	Faculty Name	Title	Duration	Company	Outcomes
1	Pushpa S. K	Machine Learning Algorithms using R Programming	4th July to 14th July	Herearound Company	1.Using R Programming Language 2. Machine Learning Algorithms.
2	Prof.S.Mahalakshmi	Machine learning and Artificial intelligence	27.6.18 to 7.7.18	Technotch ure IT solutions Pvt Ltd, Bangalore	Apply in better teaching and research
3	Prof.Swetha. M.S	Machine learning and Artificial intelligence	27.6.18 to 7.7.18	Technotch ure IT solutions Pvt Ltd, Bangalore	Apply in better teaching and research