



BMS **INSTITUTE OF TECHNOLOGY AND MANAGEMENT**

Avalahalli, Yelahanka, Bengaluru - 560064.

Volume - I, Issue - 8,

August 2020



MOUS / AWARDS / RECOGNITIONS:



1. On eve of 74th Independence day, our institute has signed a MoU with National Highway Authority of India, at their office. Under this Memorandum of Understanding, we can undertake student and faculty internships, and carry out research works. Prof. Shimna from Department of Civil Engineering was coordinating the MoU.

2. Dr. Karabi Sikdar, Professor, Department of Mathematics has been selected in Scientific Committee for 1st International Conference on Renewable Energy and Green Technology (ICREGT-2020) – Virtual Conference from 09.10.2020 to 10.10.2020 organized by Department of EEE, SRM Institute of Science and Technology, Ghaziabad in Association with Institute for Engineering Research and Publication (IFERP).

BOE/BOS

Dr. Bharathi M A, Professor and HoD, Department of AI&ML was BOS member for PDA College of Engineering, Kalburgi on 12.8.2020

SESSION CHAIRS PARTICIPATION BY FACULTY

Department	No. of Session Chairs
CHEM	8
PHY	3

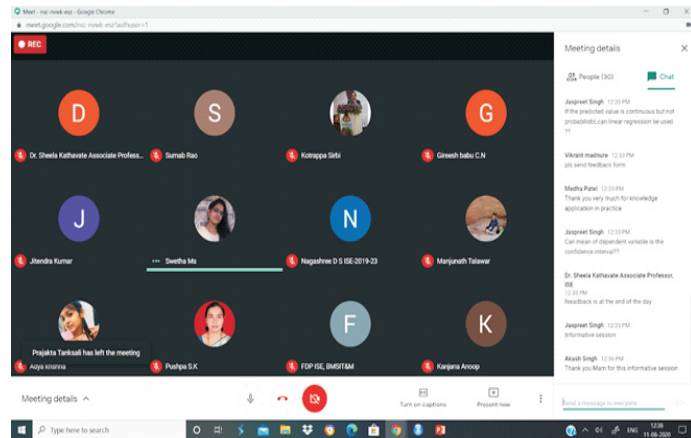
Reviewer for Journal / Conference

1. Dr. Shanthi D L, Assistant Professor, Department of ISE was a reviewer for IJECE (International Journal of Electrical and Computer Engineering) Institute of Advanced Engineering and Science (IAES)
2. Dr. Daruka Prasad B, Assistant Professor, Department of Physics was a reviewer for the paper MATPR-D-20-06263, Title: MoO₂ Nanoparticles based Electrodes as Novel Electrochemical Sensors for the detection of H₂O₂, Materials Today: Proceedings



FACULTY AS RESOURCE PERSON

1. Dr Anupama H S, Associate Professor, Department of AI&ML has extended her support as Resource Person for the two days workshop on "Artificial Intelligence and its Application: A Practical approach" organized by Department of Computer Science and Engineering, VVCE, Mysuru on 18.8.2020.
2. Dr Bharathi Malakreddy A, Professor and HoD, Department of AI&ML has extended her support as Resource person for FDP on "Opportunities and Challenges in Post Pandemic Era: An Overview" organised by BMSIT&M on 10.8.2020.
3. Dr Rajesh Gopinath (Associate Professor & HoD, Dept. of Civil Engineering & Key Liaison-OIKOS) has delivered a Expert Talk on "Urban Warming: Need for Climate Sustainability in Smart Cities", on 6.08.2020 via Google Meet in the FDP on Smart City Innovations by Applying Engineering Technologie. The FDP was organised by "Department of Civil Engineering, RIT, Bengaluru". The talk can be viewed in the OIKOS YouTube Official Channel via the link https://youtu.be/VQ1_tlaZ_EM
4. As part of Outreach of OIKOS, Dr Rajesh Gopinath (Associate Professor & HoD, Dept. of Civil Engineering & Key Liaison-OIKOS) has delivered a Expert Talk on "Urban Warming: A Case Study of Bangalore", on 24.08.2020 via Google Meet in the Expert Lecture series



Screenshot of the participants of the FDP

- "Sunday Spark", organised by NGO EcoR, Cochin. The talk can be viewed in the OIKOS YouTube Official Channel via the link <https://youtu.be/oQoMytPomo4>
5. Mr Vinod B R , Assistant Professor, Department of Civil Engineering, BMS Institute of Technology and Management Bangalore has Delivered an invited talk through online on "Technical Expectations in Construction Companies" at Wildhub Designs Pvt Ltd on 9.08.2020.
 6. Dr. Swetha M S, Assistant Professor, ISE, has delivered a talk on "Cryptographic Techniques in Information Security" on 27.08. 2020 at EWCE, Bengaluru.
 7. Prof. M. Sridevi, Assistant Professor, Dept. of MCA has extended her support as resource person for the 5-day online FDP on "Trends in Data Analytics" organized by the Dept. of ISE, BMSITM, Bengaluru from 10.08.2020 to 14.08.2020.
 8. Dr. Dwarakanath G V, Assistant Professor, Dept. of MCA has extended his support as resource person for the 5-day "Webinar on Raspberry Pi" organized by SJR Degree College, Bengaluru from 10.08.2020 to 14.08.2020.

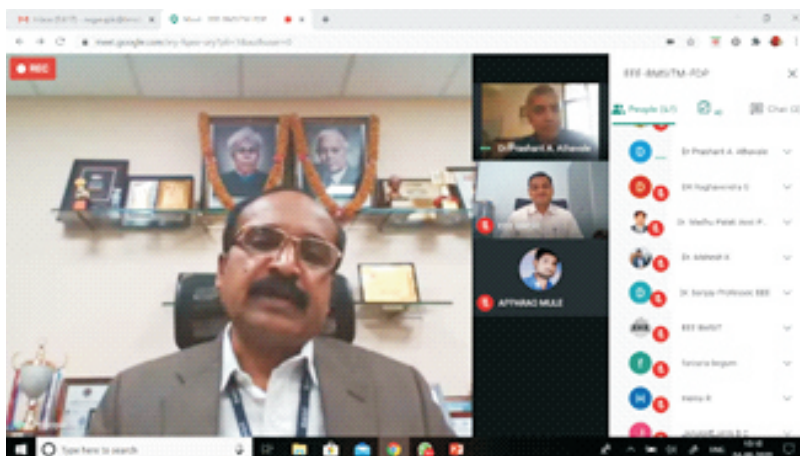
FDP conducted/ organised

1. Department of AI&ML has conducted an FDP on “Opportunities and Challenges in Post Pandemic Era: An Overview”, from 10.8.2020 to 14.8.2020. This FDP saw active participation of about 200 members from Faculty, Research scholars, PG Students, and Industry.
2. The Department of Electrical and Electronics Engineering organised a Five Day, Online Faculty Development Program on “Advances in Power Electronic Applications” from 04.08.2020 to 08.08.2020 at BMS Institute of Technology and Management. The program helped faculty members of various colleges, research scholars and students learn about the advances in the area of power electronics and its trends in industry and academics. Eight eminent resource persons including international speakers presented topics on power electronics. Multilevel inverters, Renewable Energy, Electric Vehicles and Battery technology were some of the areas covered by the speakers. There were 144 participants, who were given an e-certificate. The FDP co-ordinators were: H.D. Kattimani and Dr. Sanjay Lakshminarayanan.

Dr. Mohan Babu G.N. Principal, BMSIT&M gave an inaugural speech for the online FDP

3. The Department of Information Science and Engineering has conducted a national level FDP / SDP on “Trends in Data Analytics” from 10-14.08.2020. There were about 41 participants from various states such as Gujrat, Karnataka, Tamil Nadu, Uttar Pradesh, West Bengal, Assam, Goa, Odisha, Punjab, Telangana, Kerala and Maharashtra. It was inaugurated by the chief guest Dr. Pankaj Muthe. Dr. Pushpa S. K. convenor of the FDP welcomed the chief guest Dr. Pankaj Muthe and all other attendees. Dr. Pankaj Muthe, Shri. C Satyanandan, Dr. Surendra Prasad Babu and principal Dr. Mohan Babu shared their perspectives on Data Analytics. Vote of thanks was given by Dr. Sheela Kathavate.
4. The Department of Mechanical Organized five days online faculty development program (FDP) under with Dr. K.M. Sathish Kumar as the convenor & HOD, on the topic “Advanced Nano Materials, Nano Fabrication Techniques & Devices” from 10th August 2020 to 14th August 2020. Around 368 participants had registered across the country. Dr.

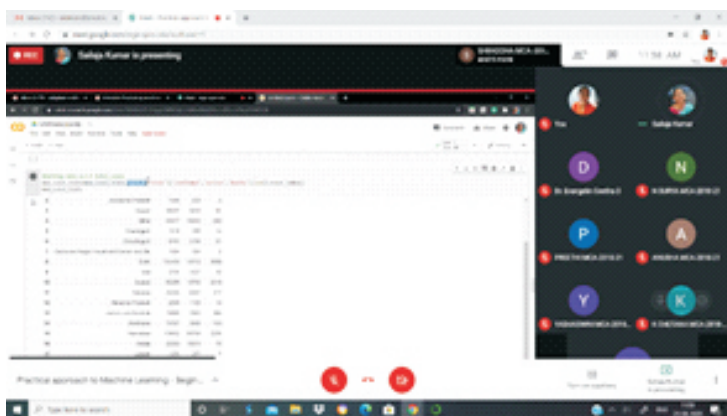
P.K. Panda, Head Material Science Division was the chief guest and he delivered the key note address on nano smart materials & its applications. All resource persons where from CeNSE department, IISC Bangalore. Dr. Nandini R and Dr. Santosh Kumar coordinated the above-mentioned FDP program successfully.





Expert/Feature talk organized

1. Department of AI&ML has organised a Feature talk on the topic “Challenges and Opportunities of Artificial Intelligence and Engineering in Defence Sector”, on 3.8.2020.
2. Department of MCA organized an online expert talk on the topic “Practical Approach to Machine Learning” for the students of Dept. of MCA on 21.08.2020 delivered by Dr. Sailaja Kumar and Dr. Evangelin Geetha, Assistant Professors, Dept. of MCA, M. S. Ramaiah Institute of Tehnology, Bengaluru.



Online quiz

1. Prof. Sreelakshmi T K, Assistant Professor, Department of Mathematics received Certificate of completion for National Level Online E-quiz competition on “Mathematics & Mathematician” organized by Department of Mathematics, Government Shyama Prasad Mukharjee College, Sitapur-497111, District - Surguja, State - Chhattisgarh, India on 25.08.2020 with score 80%.
2. Dr. Tejaswini B J, Assistant Professor, Dept. of ME participated in an online ENVIRONMENTAL AWARENESS QUIZ organized by OIKOS- Eco club of BMSIT&M, Bangalore on 4th August 2020 on the occasion World nature conservation day.

Webinar Attended (Teaching faculty)

Department	No. of Webinars attended
AI & ML	5
Chemistry	9
EEE	3
ETE	3
Mathematics	12
Mechanical	6

Webinar Attended (Nonteaching faculty)

Department	Type of Program	No. of staff members attended
CHEM	Webinars Attended	3
	FDP / Workshops / STTP attended	2
EEE	Webinars Attended	4

FDP / Workshops / STTP attended (Teaching faculty)

Department	No. attended
AI & ML	4
CHEM	1
CIV	10
EEE	5
ETE	9
ISE	4
MAT	9
MECH	12
PHY	4

Online courses completed (faculty)

Department	No. of courses certified by COURSERA
AI & ML	3
CHEM	5
CIV	4
EEE	7
ETE	5
ISE	4
MAT	6
MCA	1
MECH	1

Faculty Internship

1. Dr Anupama H S, Associate Professor, Department of AI&ML has undergone internship SHLR Techno soft Pvt Ltd, from 22.7.2020 to 4.8.2020.
2. Dr. Seema Singh, Professor and Head, Department of Electronics and Telecommunication Engineering has completed 5 days online internship in 3D Magic Info solutions private ltd, Pune from 28th July to 3rd August, 2020.

Reviewer for Journal / Conference

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2. Dr. Daruka Prasad B, Assistant Professor, Department of Physics was a reviewer for the paper MATPR-D-20-06263, Title: MoO₂ Nanoparticles based Electrodes as Novel Electrochemical Sensors for the detection of H₂O₂, Materials Today: Proceedings

Conference Organized

About the conference:

Department of Chemistry of BMSIT&M organized the first international conference on "Accelerating Innovations in Material Science - AIMS 2020". Around 300 delegates, many eminent scientists & accomplished speakers from all over the country & world attended the on-line event, which took place from 4th to 7th August 2020. Under the theme "Current advancement in Material Chemistry, Physics & Engineering", it provided an on-line vibrant global platform to research community for learning, exchanging ideas, sharing knowledge, networking with fellow colleagues and scientists from various premier institutes like IISc, IITs & IISERs.

Paper Presentation:

Department	No. of papers presented
CHEM	7
EEE	3
ME	3



Department of Chemistry has conducted an International conference on "Accelerating Innovations in Material Science (AIMS 2020)" from 04.08.2020 to 07.08.2020



Publication of Research

National Conferences:

1. Manishh S Dharek “Experimental Investigation on strength performance of the brick produced by blended demolished waste with pozzolanic Materials” , ASCM 2020 (Online National Conference on Advances in Sustainable Construction Materials) Organized by Department of Civil Engineering, National Institute of Technology Jamshedpur on 3.08.2020 to 4.08.2020.
2. Dr. Shanthi D L, Assistant Professor, Department of ISE, presented a paper titled “Analyzing Peoples' Behaviour Through Media Data”, in virtual conference on Artificial intelligence, Network Security, Data Science and IoT, (VCANDO-2020) organized by department of Computer Science and Engineering on 6.8.2020 to 7.8.2020.
3. Sundaresh S, Assistant Professor, Department of Mechanical Engineering presented a paper titled “Influence of fly ash and nickel particles on fatigue behavior of Al-Si alloys (LM6) metal matrix composites” in the International Conference on Accelerating Innovations in Material Science (AIMS 2020) organized by Department of Chemistry, BMS Institute of Technology and Management, Bangalore from 4th Aug. to 6th Aug. 2020. (Scopus)
4. Dr. Nandini R, Assistant professor, department of mechanical engineering presented a research article titled “Optimization of Mechanical Attributes of an Energy-Absorbing PU Foam in the international conference “Accelerating Innovations in Material Science (AIMS -2020), conducted by department of chemistry, BMSIT &M, Bangalore. (Scopus)
5. Keerthi Kumar N, Assistant Professor, Department of Mechanical Engineering presented a paper titled “Effect of Injection Pressure and Nozzle Geometry on Engine Performance in Simarouba Methyl Ester Operated Diesel Engines”, in 1 st International Conference on Accelerating

Innovations in Material Science AIMS 2020, Organized by department of Chemistry, BMSIT & M, Bangalore from 4 th Aug to 6 th Aug 2020. (Scopus)

International Journal

1. Madhu Palati, Electrical & Electronics Engineering, “Experimental Analysis of Zigbee Approach for Controlling the Induction Motor”, Journal of Electrical and Power System Engineering, Volume 6, Issue-2, 2020 August 24: 2582-5712.
2. Prof. Saritha I G ,Prof Sowmyashree M S of Electrical & Telecommunication Engineering, “Comparative analysis of Client Server based Protocol implementation using packet tracer” Seybold Report ISSN: 1533 - 9211 Volume 15 - Issue 8 - 2020 (Scopus)
3. Prof. Sowmyashree M S, Prof. Mala C S of Electrical & Telecommunication Engineering, “Bandwidth allocations schemes in WSN using priority based MAC protocol ” Seybold Report ISSN: 1533 - 9211 Volume 15 - Issue 8 - 2020 (Scopus)
4. Sangeetha K N, Seema Singh of Electrical & Telecommunication Engineering, "Cognitive based Image Steganography for Fingerprint Biometric Data in Smart Cards using Machine Learning Algorithms", Journal of Seybold Report, Volume 15, Issue 8, August 2020, pp 507-524
5. Dr. Swetha M S, Assistant Professor , Department of ISE, Published paper “A Novel Approach for Weather Monitoring System Using IoT” in IJRST –International Journal for Innovative Research in Science & Technology| Volume 7 | Issue 3 | August 2020 ISSN (online): 2349-6010
6. Dwarakanath G V, Dr. Aparna K and Vishwanath K(student), of Department of Master of Computer Applications, “EFFICIENT INTELLIGENT POT FOR PRECIOUS PLANTS”, Journal of Critical Reviews, ISSN - 2394-5125, Volume – 7, Issue – 13, Aug 2020, Page No. 2620 – 2625 (Scopus Indexed Journal).

7. Kiran M D, Nithin Kumar, S. S. Sharma, B. Ravikiran Kamath, R. K. Veerasha "Sliding Wear Behaviour of Nickel-Coated Short Fibre-Reinforced Al7075 Composites", Journal of Failure Analysis and Prevention-Springer, <https://doi.org/10.1007/s11668-020-00955-1>, 11 August 2020
8. Keerthi Kumar N, Raghunandhan G. H, Vinutha B, Prathiba N. "ADVANCED DECISION SUPPORT SYSTEM FOR PRECISION AGRICULTURE USING WSN", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), 11 August 2020.
9. Keerthi Kumar N, Raghunandhan G. H, Karunya Sankar, Rushank Prabhudesai. "i- TRASHER-SMART WASTE MANAGEMENT SYSTEM", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), 11 August 2020.
10. S. Pratibha, N. Dhananjaya, J. P. Shabaaz Begum & Pramod Halappa, Modified Benign approach for probing the structural, optical and antibacterial activity of Sm³⁺-doped Bi³⁺-co-doped LaAlO₃ nanoparticles, The European Physical Journal Plus, Volume 135, Article number: 651 (2020) Published : 12.08.2020. <https://link.springer.com/article/10.1140/epjp/s13360-020-00642-y>
11. Bioreduction synthesis of zinc oxide nanoparticles using Delonix regia leaf extract (Gul Mohar) and its agromedicinal applications, Journal of Science: Advanced Materials and Devices , 04.08.2020 , <https://doi.org/10.1016/j.jsamd.2020.07.009>
12. R.B.Basavaraj, D.Navami, N.H.Deepthi, M.Venkataravanappa, R.Lokesh, K.H.Sudheer Kumar, T.K.Sreelakshmi, Novel Orange-red emitting Pr³⁺ doped CeO₂ nanopowders for white light emitting diode applications, Inorganic Chemistry Communications, 120 (2020) 108164. 04.08.2020. <https://doi.org/10.1016/j.inoche.2020.108164>

Jnanavardhana

"Teachers to be taught and trained"—is a relatively growing concept found in Societies all over the world, in the nineteenth and twentieth century. Also, Quality education is considered as backbone of the nation for countries whether they are under developed, developed or developing country at present. As part of share higher level knowledge BMSIT&M gives

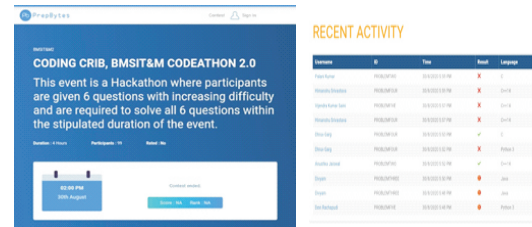
opportunities to Professors of various departments to deliver talks on recent trends and topics in their domain. This initiative has taken a firm footage as Jnanavardhana, a series of talks given by professors to share their knowledge in topics on cutting edge technology and trending subjects. The list of topics delivered by the professors are given in the table below:

Sl.No	Name of the Presenter	Date	Time	Topic of Presentation
1	Dr. Hanumantha Raju	05-08-20	12:00 PM – 1:00 PM	<i>Image De-noising</i>
2	Dr. K. M. Sathish kumar	12-08-20		<i>Role of CAQC in CIM Systems</i>
3	Dr. Ramakrishnappa	19-08-20		<i>Carbon materials and their applications</i>
4	Dr. Thippeswamy	27-08-20		<i>New Education Policy and Teachers in HEIs</i>



Initiatives by the departments

A Codeathon Event is conducted by Coding crib, Department of ISE on 30th August 2020 at 2.00-6.00PM in collaboration with Prepybytes. Total 99 participants were actively involved in the event from various colleges. Top 10 participants were given some credits and certificates from Prepybytes. All the participants gave good feedback.



Counselling - students

In the month of August, four individuals were counselled. Student A.P, CSE had issue of mild emotional disturbance. She was counselled using Cognitive Behavioural technique. Now she is in a state of emotional balance, after alteration of her thought and emotional process.

A staff from CSE department sought guidance for parental counselling. Technique of communicating, use of positive reinforcement etc. were shared. Improvement noted in her children.

One Non-teaching staff sought counselling for improving motivation related to academics for his son.

Finally, webinar was conducted which was organized by Artificial Intelligence and Machine Learning Department on the topic- "Effective Life Management during COVID", positive feedback was received. Hence, to conclude, 2 students 1 staff non-teaching were counselled and webinar conducted. Above cases were discussed with Dr Joje and Dr Mala.

Alumni Activities

- Number of registrations on portal as on 31st August 2020– 4040
- Events/Webinar by Alumni
 - Alumni Mentor Webinar on "Academics, Cultural Events and Professional Career Impact on Life" by alumna Ms. Sweetha Sreedharan (ECE Alumna) on 28th August 2020.
- Instagram Activity- <https://www.instagram.com/1byalumni/>
 - "Everything about Career Centre" session held on 16th August 2020 in association with Vaave.
 - Alumni Mentor Introduction: Aishwarya Puranik" ISE alumna held on 30th August 2020.

Online Course completed (Students)

Sl No:	Department	Sem	Course Title	Duration	Certified by	Certified date
1	ISE	7 th sem, Adithya Prashanth, 1BY17IS003	JavaScript	30 hrs	Udemy	15.08.2020
2		7 th sem, Ananya Hathwar, 1BY17IS009	Introduction to Relational DataBase	20 hrs	Coursera	10.08.2020
3		7 th sem, Ananya Hathwar, 1BY17IS009	Intermediate of Relational DataBase	20 hrs	Cours era	20.08.2020
4		5 th sem Harsh Kumar, 1BY18IS136	Introduction to programming in Swift5	30 hrs	Course ra	15.08.2020

Sadbhavana Diwas

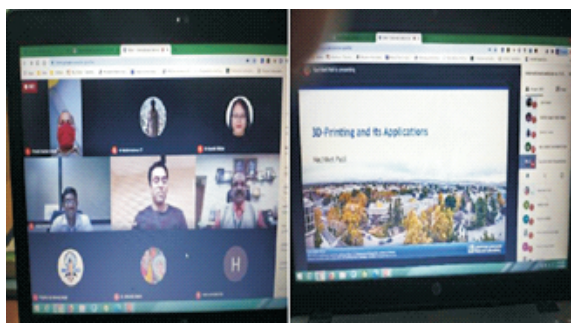
At BMS Institute of Technology and Management, we organized the Sadbhavana Diwas on 20th August, 2020 in the Institute's Amphitheatre. The faculty members were addressed by the Principal, Dr Mohan Babu G. N. about the importance of having harmony with one-self and the rest. Vice-Principal Dr. H. K. Govindaraju also graced the occasion. Dr Mala C. S., Dean (SW) gave a message on the occasion. Later all the members gathered in the Amphitheatre took Oath to work towards emotional oneness and harmony of all the people of India. In view of the pandemic, all arrangements made for the Oath taking were in accordance with the SOPs.



Webinars Organized

3-D Printing international webinar was arranged by Dr. C. Kavitha and the Resource Person was Dr. Nachiket Patil from, Livermore National Lab, California, USA. 3D printing has been in the news for the last few years. There is significant confusion and hype around 3D printing. This presentation will discuss the current state of art technology across different industrial sectors. 3D printing is not a single manufacturing process but rather a group of processing methods that involve depositing material layer by layer. A brief introduction to these methods will be provided. Some of the technologies and applications are matured and others are in the R & D phase. It will provide an introduction to how to use 3D printing to speed up innovation, improve supply chains and understand limitations of existing technology. This program was held on 19.08.2020.

Innovation and Incubation Centre of BMS Institute of Technology and Management, Bangalore in collaboration with AIC Nitte Incubation Centre organised 3-day webinar series on “Role of Startups and Innovators in Atmanirbhar Bharat Abhiyan” between 26th - 28th August 2020. Student Innovators, Startups, Faculty, R&D- Industry & Research Scholars, Incubators attended the webinar. The brochure gives the details of the speaker contributors for the webinar.



ROLE OF STARTUPS AND INNOVATORS IN ATMANIRBHAR BHARAT

August 28th, 2020 11:00am - 12:30pm

Chief Guest and Keynote Speaker



Dr. Anita Gupta
Head, NEB Division
DST, Govt. of India



Dr. Mohan Babu
Principal, BMSIT&M



Dr. A.P. Achar
CEO
AIC NITTE Incubation Center

Topic: Building culture of S&T for new self reliant India

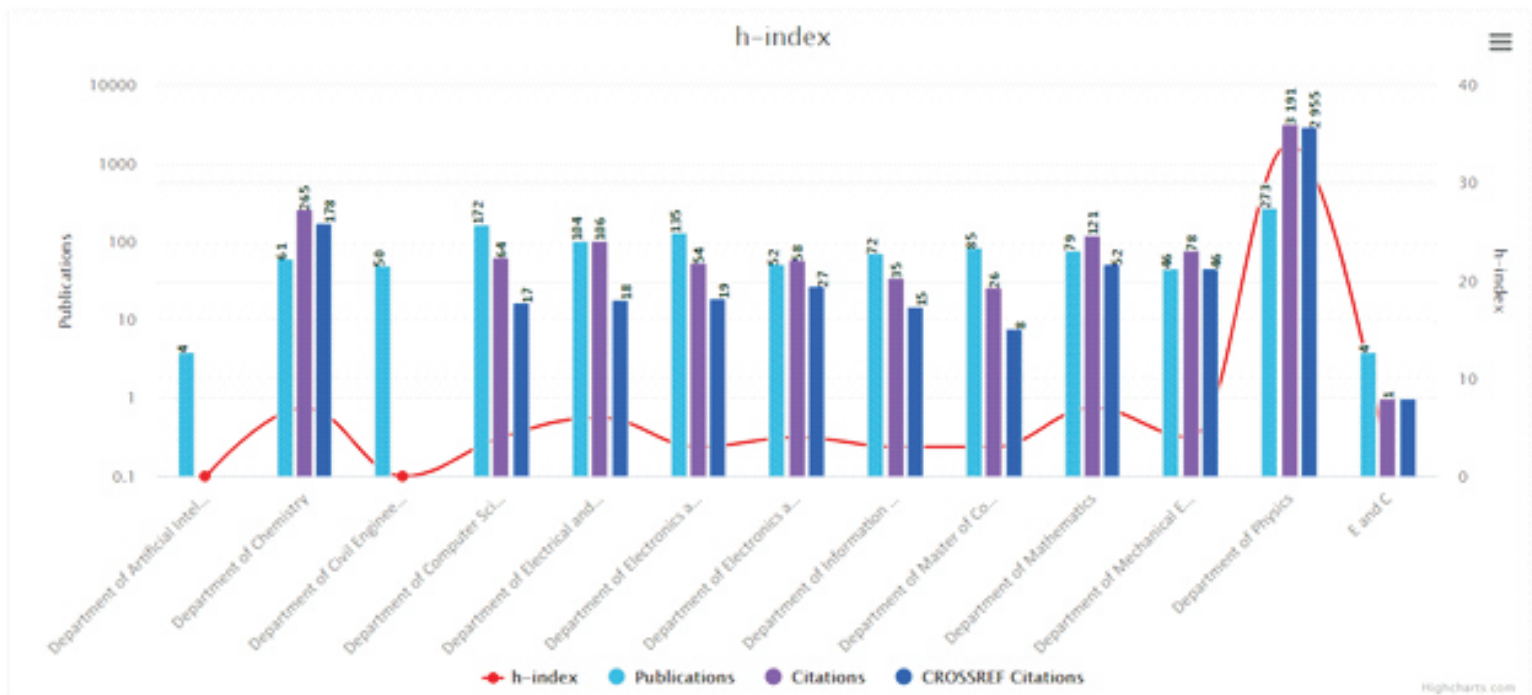
Meeting ID: 987 456 3210 Passcode: nitte





Faculty Publication Information from IRINS site

IRINS is web-based Research Information Management (RIM) service developed by the Information and Library Network (INFLIBNET) Centre in collaboration with the Central University of Punjab. The portal facilitates the academic, R&D organisations and faculty members, scientists to collect, curate and showcase the scholarly communication activities and provide an opportunity to create the scholarly network. BMSIT&M through IRINS brings the details of its faculty research and publications details for the month of August-2020.



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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