

REPORT ON COLLEGE ACTIVITIES – May 2023.

May 2, 2023

- **Ms. Thanusha Patel, Dr. Manjunath Itagi and Mr. Ravikumar H S, have published a patent.**

Dr. Manjunath Itagi, Associate Professor, Mr. Ravikumar H S, Assistant Professor and Ms. Thanusha Patel, Assistant Professor, Department of Civil Engineering have published a patent titled “A Comprehensive Study On Strength and Durability Of Self-Compacting Concrete with Nanosilica and Nanoclay”, Application No- 202341029219.

(12) PATENT APPLICATION PUBLICATION	(21) Application No. 202341029219 A
(19) INDIA	
(22) Date of filing of Application : 21/04/2023	(43) Publication Date : 05/05/2023
(54) Title of the invention : A COMPREHENSIVE STUDY ON STRENGTH AND DURABILITY OF SELF-COMPACTING CONCRETE WITH NANOSILICA AND NANOCLAY	
(51) International classification: B82Y 300000, C04B 280400, C08K 033400, C08K 033600, C09K 085040	(71) Name of Applicant : DMS. Thanusha Patel Address of Applicant : Assistant Professor Civil Engineering Department Nagarjuna college of Engineering and Technology, Devanahalli, Bangalore Karnataka Pincode 562164
(86) International Application No. PCT/IN 01/01/1900	2Dr. Manjunath Itagi 3Ravikumar H S Name of Applicant : NA Address of Applicant : NA
(87) International Publication No. NA	(72) Name of Inventor : DMS. Thanusha Patel Address of Applicant : Assistant Professor Civil Engineering Department Nagarjuna college of Engineering and Technology, Devanahalli, Bangalore Karnataka Pincode 562164
(61) Patent of Addition to Application Number NA	2Dr. Manjunath Itagi Address of Applicant : Associate Professor Civil Engineering Department Nagarjuna college of Engineering and Technology, Devanahalli, Bangalore Karnataka Pincode 562164
(62) Divisional to Application Number NA	3Ravikumar H S Address of Applicant : Assistant Professor Civil Engineering Department Nagarjuna college of Engineering and Technology, Devanahalli, Bangalore Karnataka Pincode 562164
(57) Abstract : A Comprehensive study on Strength and durability of self-compacting concrete with nanosilica and Nanoclay ABSTRACT The only material used in construction that can be considered a true backbone is concrete. The production of one metric tonne of cement results in the release of one metric tonne of carbon dioxide, which is a potent greenhouse gas. Reducing cement use is one solution being considered. Many mineral admixtures have the potential to replace cement's performance. Various studies are being conducted to identify potential alternatives to cement. Fly ash, silica fume, limestone powder, granulated powdered blast furnace slag and rice husk ash are just a few examples of the materials that are being used to partially replace cement. Self-compacting concrete is now widely used in all building projects, greatly reducing the time and effort required for the process. Self-compacting concrete is superior to other forms of special concrete because of its superior filling capacity, passing ability, and resistance to segregation. After the aggregate ratio has been calculated, the mix design is checked for workability. To find the optimal combination of SF and VMA dose, it will need many tests. With the right recipe, you can make self-compacting concrete that flows freely and is a joy to work with. For the M60 SCC, the researchers employed materials including microsilica, nanosilica, nanoclay and steel fibres, for the M60 SCC, they added fly ash.	
No. of Pages : 14 No. of Claims : 6	
The Patent Office Journal No. 18/2023 Dated 05/05/2023	34537

- **Dr. Yogeesha H C and Mr. Ravi Y V have Published Two Journal Papers.**

Mr. Ravi Y V, Assistant Professor and Dr. Yogeesha H C, Professor & Head, Department of Mechanical Engineering have published two Scopus indexed journal papers

1. “Experimental Investigation On Flexural Strength And Fracture Toughness Of Hybrid Hemp And E-Glass Composites”. Journal Name: European Chemical Bulletin. ISSN 2063-5346, DOI: 10.48047/ecb/2023.12.si5.111.

2. “Assessment of fire resistance characteristics and theoretical modeling and numerical investigation of effect of load on cantilever and rigidly fixed natural fiber reinforced concrete”, Journal Name: European Chemical Bulletin. ISSN 2063-5346, DOI: 10.48047/ecb/2023.12.si5.110

May 21, 2023

- **Mrs. Vidyashree.M has published a Journal Paper.**

Mrs. Vidyashree.M, Assistant Professor, Department of Civil Engineering has published a research paper in Scopus indexed Q3 journal titled “Comparative Study on Strength Parameters of Fibre Reinforced Concrete with and without Treatment of Coconut Fibres”. Journal Name: European Chemical Bulletin. ISSN 2063-5346. DOI: <https://www.eurchembull.com/issue-content/comparative-study-on-strength-parameters-of-fibre-reinforced-concrete-with-and-without-treatment-of-coconut-fibres-4509>.

- **Ms. Vidya C M student of Civil Engineering got Silver Medal in Javelin throw.**

Ms. Vidya C.M USN1NC19CV074, student of civil engineering department got Silver medal in javelin throw event VTU State level athletic championship organized by VTU Belagavi on 21st May 2023.

May 11, 2023

- **Dr. Nagesh K N has published a Journal Paper.**

Dr. Nagesh K N, Professor and Head, ECE Department has published an article titled “Split Ring Loaded Quad Port MIMO Antenna for LTE-46/LTE-U Bands of Sub-6 GHz”. Journal Name: Wireless Personal Communications, Springer, Impact Factor: 2.017 Quartile: Q2 H- Index: 75 DOI: <https://doi.org/10.1007/s11277-023-10487-0>.

May 18, 2023

- **Club Activity.**

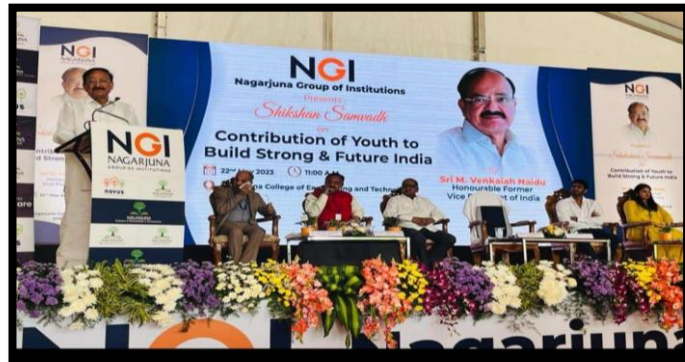
Department of CSE (Data Science) organized Club Activity “Know it” under Department Club Tech Facts on 18th May 2023. 4th and 6th semester students have actively participated in this event.



May 22, 2023

- **Former Vice President of India, Shri M Venkaiah Naidu visited the institution and delivered a talk “Youth Power to Build Strong and Future India”.**

Shri M. Venkaiah Naidu, Honorable Former Vice President of India visited the institution on 22nd May 2023 and delivered a talk on “Youth Power to Build Strong and Future India” at NCET Campus. Shri Rangaraju, Chairman, Mr. Chaithanya Varma, CEO, Mrs. Bhanu Chaithanya, COO, Dr. S G Gopala Krishna, Director, Nagarjuna Group of Institutions and Dr. B V Ravishankar, Principal, NCET were present in the event. About 1500 students of Nagarjuna Group of Institutions participated in “Shikshan Samvaad”, an interaction with the former Vice President of India.



- **First Year Student Induction Programme from 22.05.2023 to 28.05.2023.**

First year SIP-2 is started on 22nd May 2023. Dr. Nagesh K N, Professor and Head, ECE department addressed the students on the Topic “Students discipline and Time management”. Dr. Manjunath K, HOD-Chemistry and Mrs. Sharada T, HOD-Physics Coordinated the event.

- **Dr. Yogeesh H C completed the courses on Time Management and Basics of Python.**

Dr. Yogeesh H C, Professor and Head, Department of Mechanical Engineering has successfully completed two courses “Time Management” and “Basic of Python” in Infosys Springboard platform on 22nd May 2023.



May 23, 2023

- **Dr. Vivek Singh and Dr. Ajay Kumar Dwivedi have published Research Paper.**

Dr. Vivek Singh and Dr. Ajay Kumar Dwivedi, Associate Professors of ECE department have published a Journal Paper titled “Hot and Warm Region Segmentation of Breast Thermo gram for Fractal Analysis based Cancer Detection” in “IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation”, IATMSI -2022, IIITM Gwalior, India, IEEE Xplore.

Doi:<https://doi.org/10.1109/IATMSI56455.2022.10119451>

• Technical Session on Skill Enhancement and Career Development.

Department of Computer Science and Engineering in association with Institution's Innovation Council(IIC) and NCET- Internal Quality Assurance Cell(IQAC) have organized Technical Session on “Skill Enhancement and Career Development” by Mr. Ajay Murdeshwar, Lead Career Architect, Career Labs (Higher Education Partner of AICTE) on 23rd May 2023 in the Auditorium. About 100 students participated in the session.



• Ms. Aapeksha Ray, student of CSE department won best Firing Award during NCC Annual Training.

Ms. Aapeksha Ray, student of Department of Computer Science and Engineering has won the Best Firing Award in NCC Annual Training Camp-2023 5 Kar BN Kolumenahalli. Firing Range-2.5. Around 300 NCC cadets participated in the event and Ms. Aapeksha Ray got the Award on 23rd May 2023.



• Dr. Vivek Singh and Dr. Ajaykumar Dwivedi have participated in the International Workshop.

Dr. Vivek Singh and Dr. Ajay Kumar Dwivedi, Associate Professors of Department of Electronics and Communication Engineering have participated in the “3rd One-week International Workshop on RF and Microwave Components (Online)” organized by School of Electronics Engineering (SENSE) at VIP-AP

University, Amaravati, India during 17th May to 23rd May 2023.



May 24, 2023

• Expert Talk on Cyber Securing India -Research Challenges & Opportunities.

School of Computing in association with IQAC has organized a Techni Expert Talk on “Cyber Securing India – Research Challenges & Opportunities” by Ms. Sanjana Rathi, Cyber Diploma LLC, Sheridan County, Wyoming, USA and Cyber Diplomat Tech Private Limited, Bengaluru. More than 50 students participated in the session.





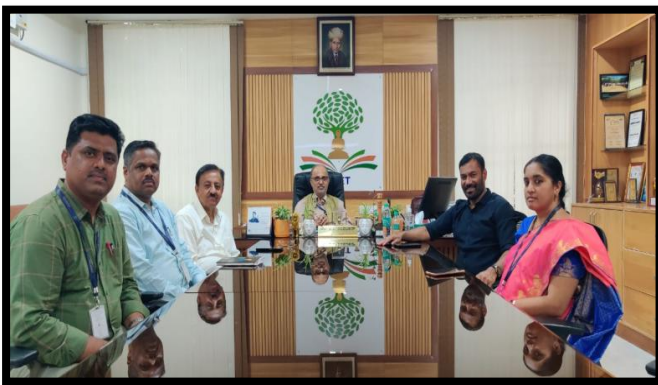
• One day Workshop on Project Preparation.

MBA department has organized One Day Workshop on Project Preparation for 3rd semester students by Dr. Lakshminarayana K, VTU, Muddenahalli, Dr. Suresh Naidu, Professor-MBA, Prof. Poornima U K, Associate Prof-MBA, and Prof. Ashok Mammen V, Assistant Prof –MBA on 24th May 2023.



• Talk on “Youth Empowerment” by Mr. Arjun Devaiah during Student Induction Programme.

Mr. Arjun Devaiah, State National Record Holder, International Athlete and Motivational Speaker gave talk on “Youth Empowerment” on 24th May 2023 during Student Induction Programme. About 250 students participated in the programme.



• Campus Placement of Civil Engineering Students.

11 students from Civil Engineering Department 2023 batch have successfully placed in Megha Engineers

(MEIL) Company. Mr. Rana Shivansh and Mr. Chethan V 2023 batch of Civil department have also placed in No Broker Company with the package of 4 LPA for an Assistant Project Manager role.

May 26, 2023

• A Motivation talk on “Success Engineering” by Mr. Sujith Jha, Motivational Speaker.

Mr. Sujith Jha, Director- L&D and Corporate Affairs at @ Exzellenz Career Shapers gave a talk on “Success Engineering” on 26th May 2023 during Student Induction Programme. About 250 students participated in the programme.



• Dr. Amaresh Gunge has been recognized as Reviewer for IEEE International Conferences.

Dr. Amaresh Gunge, Assistant Professor, Department of Mechanical Engineering has been recognized as the reviewer for Reviews on Advanced Materials Science, Published by De Gruyter on 26th May 2023.



May 27, 2023

• One day Hands on Session in SketchUp by Civil Engineering Department.

One day Hands on Session on SketchUp for 6th & 4th Semester BE students was organized by the Department of Civil Engineering on 27.05.2023. More than 50 students participated in the session.



• Project Exhibition-2023 on 27.05.2023.

Nagarjuna College of Engineering & Technology organized Technical Project Exhibition- 'Project Expo 2023, Imagination to Innovation' on 27th May 2023. Mr. M N Ramesh, Founder, Tarlac Chemical Pvt Ltd inaugurated the program and addressed the students.

First Prize:

'Virtual Reality in Health care Industry' by Mr. Charan C, Mr. Keshava G, Mr. Santhosh R Shet and Mr. Shail Faizal Meeran under the guidance of Dr. Sanjeev Kumar M Hatture, Department of ISE.

Second Prize:

'Correlation between shear parameters and SPT of the cohesive soil' by Ms. Rambhi Kumari, Mr. Hanumanthy R Chavan, Mr. Ravi Sinha and Ms. Vandana under the guidance of Dr. Ramesh P S, Department of Civil Engineering

Third Prize:

'Android Application for Vehicle Emergency Alert System-Vehelp' by Mr. Nandeesh K V, Mr. Sakshin S Airani, Mr. Thakur Vishwajeet Singh and Mr. Venkatesh under the guidance of Dr. Gopinath A R, Department of CSE.

• Dr. Amaresh Gunge delivered an Oral Presentation.

Dr. Amaresh Gunge, Associate Professor, Department of Mechanical Engineering has presented the paper entitled "Performance Studies on a Solar PV Powered Evaporative Cooling System with Seawater and Freshwater" at 14th International Conference on Thermal Engineering Theory and Applications held in Yelova, Turki, during 25th May to 27th May 2023.



May 29, 2023

• Workshop on Design, Development and Deployment of Real World Machine Learning Application.

School of Computing in association with Institution's Innovation Council & IQAC organized Five Days Workshop on "Design, Development and Deployment of Real World Machine Learning Application" from 27-05-2023 to 31-05-2023 by Mr. Mohammed Azhar Hussain, Mentor & AI Engineer, Indoskill and team gave hands-on training to the students.





• Visit to ISRO, Sriharikota by ECE Students.

43 students and Dr. Rohith.S, Assoc. Prof-ECE, Dr. Manjunath K, HOD-Chemistry & Mr. Srinivasulu K, Asst. Prof-ECE visited ISRO, Sriharikota to witness the launch of GSLV-F12/NVS-01 mission from Second Launch Pad (SLP), SDSC SHAR, Sriharikota on 29th May 2023.



• One Day Seminar on “Digital Technologies for Road Safety”.

One Day Seminar on “Digital Technologies for Road Safety” organized by Institution of Engineers and IEEE Bangalore chapter was attended by ECE 6th semester students. The Event was presided by Dr. M.A.Saleem, Traffic Commissioner of Police, Dr. Enti Ranga Reddy, FIE, Honorary Secretary, IEI -KSC, and IEEE Bangalore section chairman Dr. Alok Nath De, FIE on 29th May 2023.



• Dr. Sanjeevkumar M Hatture has participated in the Faculty Development Programme.

Dr. Sanjeevkumar M Hatture has participated in One Week Virtual Faculty Development Programme on “Emerging Research Trends in Block chain and Data Science” organized by the department of Computer Science and Engineering during 8th May to 12th May 2023 at Dr. M. G. R. Educational and Research Institute, Maduravoyal, Chennai.



• Mr. Vinod Kumar R has participated in the International Conference.

Mr. Vinod Kumar R, Assistant Professor, Department of Mechanical Engineering has participated in the International Conference on “Advanced Materials for Engineering and Management Applications” AMEMA-2023 organized by Bangalore Institute of Technology held from 18th to 20th May 2023.



May 31, 2023

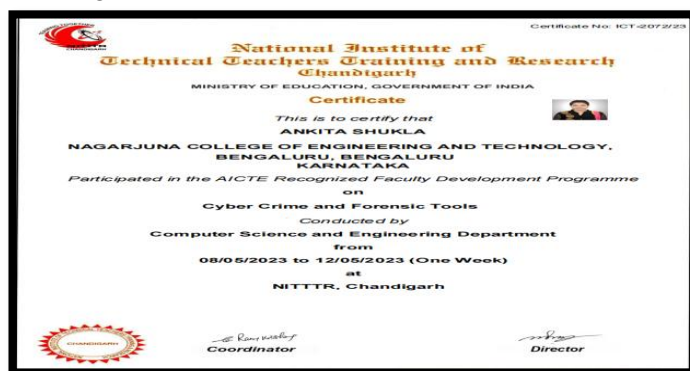
• Dr. Rohith S has completed the Training Program.

Dr. Rohith S, Associate Professor Department of ECE has successfully completed 30 hours Live Training Program on “ChatGPT and Artificial Intelligence Program held from 8th May to 26th May 2023.



• Mrs. Ankita Shukla has participated in Faculty Development Programme.

Mrs. Ankita Shukla, Assistant Professor, ISE department has participated in AICTE recognized Faculty Development Programme on Cyber Crime and Forensic Tools conducted by Computer Science and Engineering Department from 8th May to 12th May 2023 at NITTTR, Chandigarh.



• Dr. Sanjeevkumar M Hatture has participated in Faculty Development Programme.

Dr. Sanjeevkumar M Hatture, Professor and Head, Department of Information Science and Engineering has participated and successfully completed One Week AICTE-VTU Joint Teachers Training Programme on “Introduction to Cyber Security” from 22nd to 26th May 2023 organized by Visvesvaraya Technological University, Centre for PG studies, VIAT, Muddenahalli, Chikkaballapura.



• Review of ECE NEP syllabus for the AY 2023-24.

Department of ECE has invited Dr. Seshachalam, Professor, E&C and Dean Academics of BMSCE, Bengaluru as a Subject Expert to review the ECE syllabus for the AY 2023-24 on 25th April 2023.



• Department of ECE conducted Board of studies meeting.

Department of ECE conducted Board of studies meeting convened by BOS VTU NOMINEE Dr. Dinesha P, Prof, Dept of ECE & M.Tech, PG coordinator, Dayanand Sagar of Engineering Bengaluru, Mr.Karthik Kandasamy, Industry Expert and BOS Chairman Dr. Nagesh K N, Prof & Head, Department of ECE and all other faculty members on 27th April 2023 and presented Curriculum designed for AY 2023-24 and approval of scheme and syllabus for 5th to 8th semester NEP scheme was discussed.



• **Dr. Ajay Kumar Dwivedi delivered an Oral Presentation.**

Dr. Ajay Kumar Dwivedi, Associate Professor, ECE department has delivered an oral Presentation on his research work “Dielectric Resonator Loaded Two Port Circularly Polarized MIMO Antenna for Sub 6 GHz Band Coverage” at IEEE 7th Open International Conference "Electrical, Electronic and Information Sciences" Estream 2023, Vilnius, Lithuania.



• **Dr. Ajay Kumar Dwivedi attended AICTE recognized Faculty Development programme.**

Dr. Ajay Kumar Dwivedi, Associate Professor, Department of ECE has participated in the AICTE recognized faculty development programme on “Recent trends in Wireless Communication” organized by Electronics Cnd communication engineering department from 24th to 28th April 2023 (one week) at NITTTR, Chandigarh.



• **Dr. Rohith S has been recognized as Reviewer for IEEE International Conferences.**

Dr. Rohith S, Associate Professor, Department of ECE has been recognized as the reviewer for “2nd IEEE International conferences on Distributed computing and Electrical Circuits and Electronics (ICDCECE)”, organized by the Ballari Institute of Technology and Management, Ballari India in Association with IEEE Bangalore Section on 29th to 30th April 2023.



• **Dr. Sanjeevakumar M Hatture has been recognized as Reviewer for IEEE International Conferences.**

Dr. Sanjeevakumar M Hatture, Professor and Head, Department of ISE has been recognized as the reviewer for “2nd IEEE International conferences on Distributed computing and Electrical Circuits and Electronics (ICDCECE)”, organized by the Ballari Institute of Technology and Management, Ballari India in Association with IEEE Bangalore Section on 29th to 30th April 2023.



• **Dr. Syed Naimathullah Hussain has been recognized as Reviewer for IEEE International Conferences.**

Dr. Syed Naimathullah Hussain, Professor and Head, Department of CSE (Data Science) has been recognized as the reviewer for “2nd IEEE International conferences on Distributed computing and Electrical Circuits and Electronics (ICDCECE)”, organized by the Ballari Institute of Technology and Management, Ballari India in Association with IEEE Bangalore Section on 29th to 30th April 2023.



• Following faculty members have successfully completed their NPTEL Course and received the course completion certificates.

SL.NO	NAME	DEPARTMENT	COURSE NAME
1.	Dr. Ajaykumar Dwivedi	ECE	Microprocessors and Microcontrollers
2.	Dr. Vivek Singh	ECE	Microprocessors and Microcontrollers
3.	Dr. H Venkatesh Kumar	ECE	NBA Accreditation and Teaching and Learning in Engineering (NATE)
4.	Mr. Shashikiran R	ECE	Principles of Signals and Systems
5.	Mr. Sunil Kumar B S	ECE	International Marketing
6.	Mr. Sunil T	ECE	Introduction to Machine Learning
7.	Mr. Mahesh MR	ECE	The Joy of Computing using Python
8.	Dr. Rohith S	ECE	The Joy of Computing using Python
9.	Mr. Sreenivasulu K N	ECE	Digital System Design
10.	Dr. M V Sarvesha	MAT	Business Statistics
11.	Dr. G R Roshini	MAT	Data Science for Engineers.
12.	Dr. Rashmi P Karachi	AIML	Introduction to Machine Learning
13.	Mrs. Vidyashree M	CV	Geotechnical Engineering-I
14.	Ms. Deepika N M	CV	Water and Waste water Treatment
15.	Mrs. Pratibha Pujari	CSE	Cloud Computing
16.	Dr. Yogeesh H C	ME	The Joy of Computing using Python
17.	Mr. Balaji Y S	ME	The Joy of Computing using Python
18.	Dr. Sanjeevkumar M Hatture	ISE	Ethical Hacking

• Following Students have successfully completed their NPTEL Course and received the course completion certificates.

SL.NO	NAME	COURSE NAME
1.	Harsha S N	Basics of Machine Learning
2.	Javid Ahammed	Python Fundamentals for Beginners
3.	Venu Gopal	Data Science with Python
4.	Spoorti Suresh Awatimath	Data Science with Python
5.	Vilas	Python for Machine Learning
6.	T. Vamsi Putra	Data Science Foundations
7.	Vindyashree R	Data Science with Python
8.	Rahul	Probability for Data Science
9.	Tharun R	Data Visualization With Power BI
10.	Haripriya H V	Data Science with Python
11.	Muskan Kouser A	Data Science with Python
12.	M Sai Pavan	Python for Machine Learning
13.	Anusha V	Data Science with Python
14.	Rithvika N	Python for Machine Learning
15.	Dakshayani M	Python for Machine Learning
16.	Dakshayani M	Data Visualization With Power BI
17.	K Yeshwanth	Data Visualization With Power BI
18.	Harsha S N	Data Science Foundations
19.	T. Vamsi Putra	Data Science with Python
20.	Spoorti Suresh Awatimath	Data Science Foundations