

An Autonomous Institution under VTU, Accredited by NAAC with A+ Grade Internal Quality Assurance Cell (IQAC)

REPORT ON COLLEGE ACTIVITIES – April 2023

April 2, 2023

NAGARJUNA

COLLEGE OF ENGINEERING & TECHNOLOGY

• Dr. Ajay Kumar Dwivedi has published a Journal Paper.

Dr. Ajay Kumar Dwivedi, Associate Professor, Dept. of ECE has published an article titled "Design and Optimization of MIMO Dielectric Resonator Antenna Using Machine Learning for Sub-6GHz based on 5G IoT Applications". Journal Name: SCIE Arabian Journal for Science and Engineering, Springer, Impact Factor: 2.807, Quartile: Q1, H- Index: 50.

DOI:<u>https://link.springer.com/article/10.1007/s13369-023-07830-9</u>.

• Dr. Sanjeevakumar M. Hatture has published a Journal Paper.

Dr. Sanjeevakumar M. Hatture, Professor & HOD, Department of ISE has published a paper entitled "The Use of Artificial Intelligence to Improve Agriculture and Crop Management". Journal Name: International Journal for Modern Trends in Science and Technology, UGC Approved Journal.

DOI: http://www.ijmtst.com/vol9si01.html.

• Dr. Vivek Singh and Dr. Ajay Kumar Dwivedi have published a Journal Paper

Dr. Vivek Singh, and Dr. Ajay Kumar Dwivedi, Associate Professors, Department of ECE have published a paper titled "Treatment of Hepatocellular carcinoma using 5-Slot Microwave Ablation Antenna at 2.45 GHz". Journal Name: "International Conference on Intelligent Systems and Smart Infrastructure" (ICISSI 2022), Taylor & Francis (CRC Press).

DOI: <u>https://dx.doi.org/10.1201/9781003357346-79</u> . April 4, 2023

• Mr. Nanda Kishore and Dr. H. Venkatesh Kumar have published an Journal Paper

Mr. Nanda Kishore, Assistant Professor and Dr.H.Venkatesh Kumar, Professor, ECE Department have published paper Titled "Providing End-to-End QoS over Mobile and Adhoc Networks using Dynamic Source Routing (DSR) Protocol". Journal Name: International Conference for Advancement in Technology (ICONAT)-2023,IEEE-Xplore. DOI:<u>https://ieeexplore.ieee.org/search/searchresult.js</u> p?newsearch=true&contentType=conferences&queryT ext=H%20Venkatesh%20Kumar

April 6, 2023

• Hanuma Jayanthi Celebrations.

Hanuman Jayanthi was celebrated on 6th March 2023 at Main Block. Dr. S G Gopala Krishna, Director, NGI and Dr. B V Ravishankar, Principal along with all the Teaching and Non-Teaching Staff members graced the occasion.





• E-Yantra Symposium at IIT Bombay.

Dr. Rohith S, Associate Professor-ECE and 3rd Semester ECE students Mr. Sudanva, Prajwal, Ganesh have attended E-Yantra Symposium at IIT Bombay from 5th to 6th April 2023.





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• Dr. Yogeesha H C attended NAAC Approved Two days Seminar

Dr. Yogeesha H C, Associate Director (IQAC) & Professor and Head, Mechanical Engineering Department has participated in the NAAC approved two days seminar on "Strategies for Quality Improvement in Higher Educational Institutions" on April 5th and 6th 2023 organized by Internal Quality Assurance Cell (IQAC), R.M.K. college of Engineering and Technology.



April 8, 2023

• Invited Talk by Dr.Syed Naimathulla Hussain.

Dr. Syed Naimathulla Hussain, Professor and HOD, CSE (Data Science) has participated as a Resource person in the five days Faculty Development Programme on "Leveraging Research Challenges in Information Technology for Teaching Learning Process" during 3rd to 8th April 2023 at Presidency University.



April 10, 2023

• Mr. Yadu Prasad C and Dr. H.Venkatesh Kumar of ECE Department have published a Journal paper

Mr.Yadu Prasad C, student and Dr. H.Venkatesh Kumar, Professor, Department of ECE have published a paper in CIMS ("Computer Integrated Manufacturing Systems") journal Q2 journal, titled "Telemedicine by Narrow Band NB-IoT". DOI: http://cimsjournal.com/index.php/CN/article/view/812.

Dr. Manjunath Itagi, Mr. Ravikumar H S and Ms. Thanusha Patel, Department of Civil Engineering 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 а patent titled "Experimental Analysis Of Strength and Durability Characteristics of Bacterial Concrete", Application No-202341017517.

| (19) INDIA (22) Date of filing of Appli | cation :08/03/2023 | (43) Publication Date : 17/03/2023 |
|--|---|--|
| (54) Title of the invention : STEEL FIBERS | IMPROVING THE QUALITIES OF | GEOPOLYMER CONCRETE USING NANOMATERIALS AND |
| closification (60) Interrational Application No Fing Date (7) Interrational Publication (61) Pattern of Addison to (61) Pattern of Addison to Application Number (62) Dynamics Filmg Date | 01/01/1900 NA NA | (7) Name of Applicant : 101 Name of Applicant : 102 Name of Applicant : Department Naming and States Policies of Policy (Name of Naming Con- Policy (Name of Applicant Name of Nam |
| geopolymers have the potential production of geopolymer com geopolymer composites, recen fields is nanotechnology, whice applications. Many research ha mechanical characterist created to accomplish this geo nanometakaolin) of 0, 2%, 4% | I to totally replace traditional Portland ce posites has a smaller carbon footprint and t attempts have been undertaken to integr h has gained prominence over the last two we been conducted los far to better under resortructure characteristics. The simulian cas of geopolymer concrete (GPC) mixtuu L initially, geound granulated blast furnae, 6% and 8% were utilised. Second, steel combined with the bist values of fanomar | and Stard Deers, ABSTRACT bread conservitions materials called mentioemposite. Compared to the manufacture of PostInd's corest, the dutities is so energy. To improve the dutancteristics and performance of a several kink of non-participles (PN). Due of the insta astrone to meth- tand how adding NPs to georphome composites affects their field, physical stard how adding NPs to georphome composites affects their field, physical et al. (2018) with the instance of the instance of the instance of the event holes, and eriming (0, 0.3%, 1, and 1.5%) was used. Finally, the normality. |
| | | |

April 12, 2023

• Paper of BE Final year ECE students have been accepted for publication in IEEE, Romania.

The paper of BE Final year ECE students Mr. Romania S. Kumar, Mr. N. Tiwari, Mr. M. Asif, Mr. and A.K Dwivedi, V. Singh, has been accepted for publication in IEEE, "Dual Port MIMO Antenna with High Isolation", International Symposium on Advanced Topics in Electrical Engineering (ATEE), Nagarjuna College of Engineering and Technology, Bengaluru.

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Politehbnica University of Bucharest, Romania (2023)".



April 13, 2023

• ISE students Project Exhibition in 7th National Level Techno Exhibition.

ISE students along exhibited their projects in 7th National Level Techno Exhibition held at Dr. AIT, Bengaluru on 13th April 2023.



• Recognition to the faculty members for their research work.

Mr. Chaithanya Varma, CEO, Nagarjuna Education Society has distributed monetary benefits to the faculty members as recognition for their research work and also presented appreciation memento for coordinators of VTU Youth Fest Yuvothsava 2023.





April 14, 2023

• Dr. Anil Kannur, Dr. Syed Naimathulla Hussain, Dr. Sindhu D V and Mr. Arun Kumar S have published an Indian Design Patent.

Dr. Anil Kannur, HOD-CSE, Dr. Syed Naimathulla Hussain, HOD-CSE(Data Science), and Mr. Arun Kumar S have published an Indian patent design titled "An Intelligent Antitheft Device For Electrical Vehicle" on 14th April 2023, Journal No 15/2023, Application No-352805-001.



April 19, 2023

• KSCST sanctioned project grants for academic year 2022-23.

Seven KSCST Project proposals were accepted for grants during the academic year 2022-23. EC:2 projects, Civil: 3 Projects and ISE: 2 Projects. The sanction letter was received on 19th April 2023.



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College of Engineering & Technology

| 861. | 46S_BE_4644 | TREATMENT OF SOAP AND DETERGENT INDUSTRIAL WASTEWATER BY BIO- SYNTHESISED COPPER NANO-PARTICLES | B.E. | CIVIL ENGINEERING | MS VIDYASHREE MG | SAI SIRISHA T ROHINI V KEERTHANA B N SUMANTH M R | 3,000.00 |
|------|-------------|--|------|---|------------------------------------|--|----------|
| 862. | 46S_BE_4730 | PERFORMANCE EVALUATION OF CORROSION INHIBITOR ON PROPERTIES OF STEEL REINFORCEMENT EMBEDDED IN CONCRETE SUBJECTED TO AGGRESSIVE ENVIRONMENT. | B.E. | CIVIL ENGINEERING | DR NAGARAJ V K PROF.DEEPIKA N M | PRATHAP RAJ ARUN KUMAR NIVAS H REDDY SATISH N | 3,000.00 |
| 863. | 46S_BE_4733 | HYDROPHOBICITY IMPROVEMENT OF ALKALI ACTIVATED COMPOSITE WITH SACCHARUM OFFICINARUM AND AEGLE MARMELOS AS NATURAL WATER PROOFING AGENT | B.E. | CIVIL ENGINEERING | DR. NAGARAJ V K | CHELUMGARI PAVANA NARASIMHA YADAV PAVITHRA R MANOJ TR G VENKATA GIRISH REDDY | 3,000.00 |
| 864. | 46S_BE_3874 | MACHINE LEARNING BASED MONITORING, OPTIMAL LOCALIZATION AND TREATMENT OF HEPATOCELLULAR CARCINOMA USING MICROWAVE ANTENNA SENSOR FOR POST COVID-19 PATIENT | B.E. | ELECTRONICS AND COMMUNICATION ENGINEERING | DR. AJAY KUMAR DWIVEDI | VINAY K V POOLA DILLI PRASAD TEJA SHREE A MONICA A | 5,000.00 |
| 865. | 46S_BE_4913 | IOT BASED AUTOMATIC WIRELESS SIREN USING ARDUINO CONTROLLER | B.E. | ELECTRONICS AND COMMUNICATION ENGINEERING | SREENIVASULU K N | G V JAYA KRISHNA BHAVYA SAI K LAKSHMI PRASANNA K :A SAINIHITH | 6,000.00 |
| 866. | 465_BE_4815 | SYNERGETIC FRAMEWORK FOR EYEBALL MOUSE AND GESTURE RECOGNITION USING AI | B.E. | INFORMATION SCIENCE AND ENGINEERING | MR. MOHAN DN | CHANDANA P DUTTAPATI HARISHMA SAYEEDA SUHANA YESURI GAYATHRI | 5,000.00 |
| 867. | 46S_BE_5329 | CAPTURE-TO-DISPLAY DELAY MEASUREMENT SYSTEM IN VIDEO COMMUNICATION | B.E. | INFORMATION SCIENCE AND ENGINEERING | DR. SYED NAIMATULLA HUSSAIN | MEGHANA M | 5,000.00 |

April 21, 2023

• Dr. Amaresh Gunge participated in one week FDP.

Dr. Amaesh Gunge, Assistant Professor, Department of Mechanical Engineering has participated in one week Faculty Development Programme on "Innovation in Engineering Arena connected with Industry 4.0" during 17-21 April, 2023 organized by RLJIT, Doddaballapur.



April 22, 2023

 Participation of Faculty members in Online Learning Session on Importance of Accreditation and Ranking of Institutions in NEP 2020.

Mr. Chinmay Prakash, Assistant Professor, Department of MBA and Dr. Yogeesha H C, Associate Director-IQAC & Prof and Head, Department of Mechanical Engineering have attended the Online Learning Session on Importance of Accreditation and Ranking of Institutions in NEP 2020 organized Disciplines India Learning Forum.





April 24, 2023

 Meeting of Board of Studies of Department of Civil Engineering.

Department of Civil Engineering has organized the meeting of Board of Studies to discuss the curriculum design and development for the academic year 2023-23.

April 25, 2023

Guest Lecture organized by MBA department.

MBA department in Association with IQAC and IIC organized Guest lecture on "Sabka Vikas Sabka Prayas what does it mean to you as youth?" by Ms. Prashanti Goswami, Public relation Officer, SSS Prashanti Bala Mandira Trust at Seminar Hall, Main Block.



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April 27, 2023

Workshop on IPR activities and IP Management at Higher Educational Institutions.

On account of World Intellectual Property Rights Day, Institution's Innovation Council(IIC) in association with KAPILA, NCET-KSCST IP Cell and IQAC organized Workshop on "IPR activities and IP Management at Higher Educational Institutions" by Dr. Gopalakrishnan K, Secretary General, University Space Engineering Consortium (UNISEC) India. Convenor, 75 students Satellite Consortium: Mission 2022, Advisor- R&D, NCET, Bengaluru. More than 120 students and Faculty members actively participated in the event.



Meeting of Board of Studies of Department of Electronics and Communication Engineering on 27.04.2023.

Department of Electronics and Communication Engineering has organized the meeting of Board of

Studies to discuss the curriculum design and development for the academic year 2023-23. The meeting was held on 27.04.23 at 10.30 AM. Dr.Dinesha P, VTU Nominee and Professor, Dept of ECE, Dayanand Sagar College of Engineering, Mr. Karthik Kandasamy, Expert from Industry nominated by Academic Council , Dr. NAGESH KN, Chairman-BOS and Prof & HOD-ECE, Members of the BOS and staff members attended the meeting.



April 28, 2023

• Dr. Ajay Kumar Dwivedi and Dr. Vivek Singh published a Journal Paper.

Dr. Ajay Kumar Dwivedi, Associate Professor, and Dr Vivek Singh, Associate Professor, Department of ECE have published a Journal paper titled "Dual Port MIMO Antenna with High Isolation and High Gain for n257-Band 5G Millimeter Wave". Journal name: "IEEE 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Politehbnica University of Bucharest, Romania, Pubication Type: IEEE Xplore

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indexed in Politehbnica University of Bucharest, Romania URL: https://ieeexplore.ieee.org/document/10108208

 Participation of Faculty members in World Day Webinar on Women and IP: IP Accelerating Innovation and Creativity.

Mr. Chinmay Prakash, Assistant Professor. Department of MBA has attended World IP Day Webinar on Women and IP: Accelerating Innovation and Creativity organized by Turnip Innovations.



April 29, 2023

NAGARJUNA

Distinguished Alumni Talk on Effective People Management Skills.

Department of MBA in association with NCET Alumni Association has organized Distinguished Alumni Talk on "Effective People Management Skills" by Mr. Hemanth K C (2020 batch MBA Alumni), Assistant Manager, HR Department, Reliance Mylio Stores, Bengaluru on 29th April 2023.



Scopus & Web of Science. Country: • Meeting of Board of Studies of MBA.

Department of MBA has organized the meeting of Board of Studies to discuss the curriculum design and development for the academic year 2023-23.



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

Dr. Rohith S, Associate Professor, Department of ECE has been recognized as the reviewer for two IEEE International conferences i.e. ICICACS-2023-IEEE International Conference on Integrated Circuits and Communications Systems hosted by SLN College of Engineering, Raichur and ICRTEC-2023-International Conference on Recent Trends in Electronics and Communication Engineering hosted by NIE, Mysore.

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| | Technical | Co-Sponsor | |
| | | | |
| IEEE Internation | | ted Circuits and Communication Syste CS-2023) | em |
| | This certificate is p | roudly presented to | |
| | Dr. R | ohith S | |
| REVIEWER | Nagarjuna College of En | gineering and Technology | |
| ***** | | | |
| | | | |
| In recognition for being (ICICACS-2023), organize | d by the Department of Electronics ar | al Conference on Integrated Circuits and Communication Sy nd Communication Engineering, H.K.E. Society's S.L.N. Colleton in and North Karnataka Sub-socion on February 24*-25*, 2023. | |
| In recognition for being (ICICACS-2023), organize | d by the Department of Electronics ar | nd Communication Engineering, H.K.E. Society's S.L.N. Colle | |
| In recognition for being (ICICACS-2023), organize | d by the Department of Electronics ar in association with IEEE Bangalore Sectio | nd Communication Engineering, H.K.E. Society's S.L.N. Colle | |

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Dr. Yogeesha H C, Associate Director-IQAC & Prof & Head, Department of Mechanical Engineering has published a patent.

Dr. Yogeesha H C, Associate Director-IQAC & Prof & Head, Department of Mechanical Engineering has published a patent titled "An IoT Based Clean Energy Driven Lighting System". Application Number: 202241076117.

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| Office of the Controller Ge Department of Industrial F Ministry of Commerce & Ir Government of India | | | | | |
|---|---|--------|--|--|--|
| Application Details | | | | | |
| APPLICATION NUMBER | 202241076117 | | | | |
| APPLICATION TYPE | ORDINARY APPLICATION | | | | |
| DATE OF FILING | 28/12/2022 | | | | |
| APPLICANT NAME | 1 . Gururaja Sharma 2 . Dr. Yogeesha H C 3 . Avinash S 4 . REVA University | | | | |
| TITLE OF INVENTION | An IoT Based Clean Energy Driven Lighting System | | | | |
| FIELD OF INVENTION | MECHANICAL ENGINEERING | | | | |
| E-MAIL (As Per Record) | gururaj.t@reva.edu.in | | | | |
| ADDITIONAL-EMAIL (As Per Record) | iprcell@reva.edu.in | | | | |
| E-MAIL (UPDATED Online) | | | | | |
| PRIORITY DATE | | | | | |
| REQUEST FOR EXAMINATION DATE | - | | | | |
| PUBLICATION DATE (U/S 11A) | 06/01/2023 | Activa | | | |

 Dr. Amaresh Gunge, Assistant Professor, Department of Mechanical Engineering has been recognized as Reviewer for ELSEVIER Journal

Dr. Amaresh Gunge, Assistant Professor, Department of Mechanical Engineering has been recognized as the reviewer as Reviewer for Journal Surfaces and Interfaces (ELSEVIER Journal) Impact Factor: 6.137.



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

| Sl. No | NAME | DEPT | COURSE NAME |
|-----------|-------------------------|------|--|
| 1. | Ms. <u>Naghma Anjum</u> | ECE | Nano Technology in Agriculture |
| 2. | Mr.Vijaykumar M Patil | ME | Design Thinking – A Primer |
| 3. | Mr. Balaji Y S | ME | Design Thinking – A Primer |
| 4. | Dr. <u>Nagaraj</u> V K | CV | Introduction to Lean Construction (Module 1 - Lean basics) |
| 5. | Ms. Pushpa S | ECE | CMOS Digital VLSI Design |
| 6. | Ms. Prathima N | ECE | CMOS Digital VLSI Design |