

NIRMAAN

NEWS LETTER OF CIVIL ENGINEERING

VOLUME 12 , NO.1 , DECEMBER 2023



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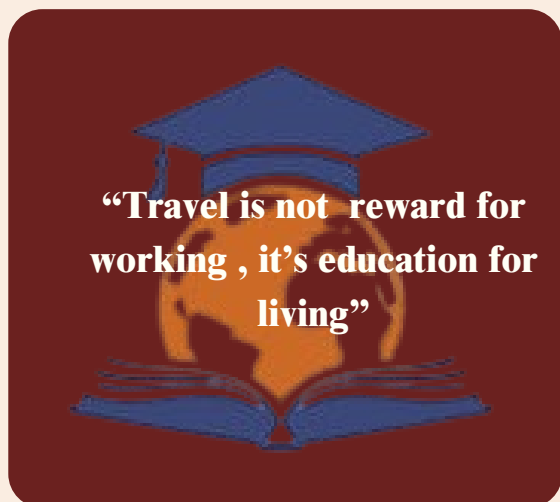
ONE DAY EDUCATIONAL TOUR

PAIDIPALEM BALANCING : 02-July-2024



WHAT'S INSIDE
THIS ISSUE:

**GROUP PHOTO
OF II B-TECH
STUDENTS
ALONG WITH
GOVERNAMENT
AUTHORITIES**



As a part of Educational tour for UG Students (II B.Tech, A.Y. 2022-2023), the Department of Civil Engineering In association with RGM CET Alumnus and management of RGM CET have been arranged one-day field visit to the Paidipalem balancing reservoir on 02nd July 2023.

The project is located at 500 meters distance from at Paidipalem Village in Simhandripuram mandal, kadapa district., Andhra Pradesh (Coordinates: 14°42'27"N, 78°11'38"E).

The purpose of reservoir construction is to store and utilize Srisailem Dam's back water/surplus water. It is a 6TMC capacity reservoir is being constructed by Government of A.P. for irrigating 47500 acres of parched lands by lift irrigation. The purpose of the field trip is to expose students to practical construction knowledge.



GEOLOGICAL FIELD VISIT

Orvakal Rock Garden : 16-Sep-2023

Orvakal Rock Garden, or Oravakallu Rock Garden, is the 1000 acre Sculpture Garden park with ancient cave and igneous rock formations between pools of water. It is located on NH18 highway, outside the village of Orvakal, about 20 kilometres (12 mi) from Kurnool, Andhra Pradesh, southern India. There is a lot of facilities include Boating, Hotel etc.,

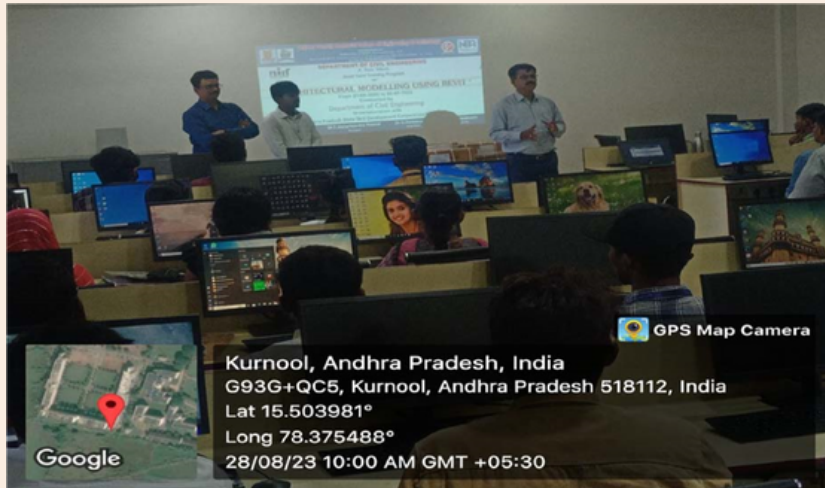


Most civil engineering projects involve some excavation of soils and rocks, or involve loading the Earth by building on it. In some cases, the excavated rocks may be used as constructional material, and in others, rocks may form a major part of the finished product, such as a motorway cutting or the site for a reservoir. The feasibility, the planning and design, the construction and costing, and the safety of a project may depend critically on the geological conditions where the construction will take place. This is especially the case in extended 'greenfield' sites, where the area affected by the project stretches for kilometers, across comparatively undeveloped ground



ARCHITECTURAL MODELLING

Short Term Training On REVIT : 21-Aug-2023



RGM COLLEGE OF ENGINEERING AND TECHNOLOGY (RGM CET) HAD ORGANIZED A SHORT TERM TRAINING PROGRAM ON “ARCHITECTURAL MODELLING USING REVIT” SOFTWARE IN COLLABORATION WITH ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION (APSSDC).



“A GOOD BUILDING COME FROM GOOD PEOPLE, ALL PROBLEMS ARE SOLVED BY GOOD DESIGN”

TO INTRODUCE PARTICIPANTS TO AUTODESK REVIT AND ITS TOOLS FOR ARCHITECTURAL MODELING.
TO TEACH PARTICIPANTS THE FUNDAMENTALS OF CREATING 2D AND 3D ARCHITECTURAL MODELS.
TO ENABLE PARTICIPANTS TO EFFICIENTLY USE REVIT'S BUILDING INFORMATION MODELING (BIM) CAPABILITIES.
TO FAMILIARIZE PARTICIPANTS WITH THE CONCEPT OF PARAMETRIC MODELING FOR DESIGN FLEXIBILITY



ENGINEERS DAY : 15-Sep-2023



MEET THE MAN..!

THE CIVIL ENGINEER WHO DESIGNED:

- THE BEAUTIFUL GHAT ROAD OF TIRUMALA
- HYDERABAD FLOOD MANAGEMENT SYSTEM
- VIZAG SEA PORT DESIGN



ENGINEERS' DAY -2K23 WAS STARTED WITH THE INAUGURAL FUNCTION, IN WHICH THE SPEECHES WERE GIVEN BY MR. V MADHU (COORDINATOR OF ENGINEERS' DAY 2K23), DR. G. SREENIVASULU (HOD), MR. C. KRISHNAMA RAJU, DR. B NAGA KIRAN, DR. CHENNA RAJARAM, DR. D.V. ASHOK KUMAR (DIRECTOR OF RGM CET) AND ER. C PRAKASH & ER. P.AMRUTH SAGAR ADDRESSED ABOUT OUR COLLEGE AND TALKED BRIEFLY ABOUT VARIOUS TECHNOLOGIES IN CIVIL ENGINEERING AND IMPORTANCE OF LEARNING THEM IN ACADEMIC CURRICULUM OF THE STUDENT.

"CELEBRATING SUCCESS: STUDENTS RECEIVING PRIZES AND CERTIFICATES FOR THEIR OUTSTANDING PARTICIPATION IN THE EVENT!"



ARTIFICIAL INTELLIGENCE

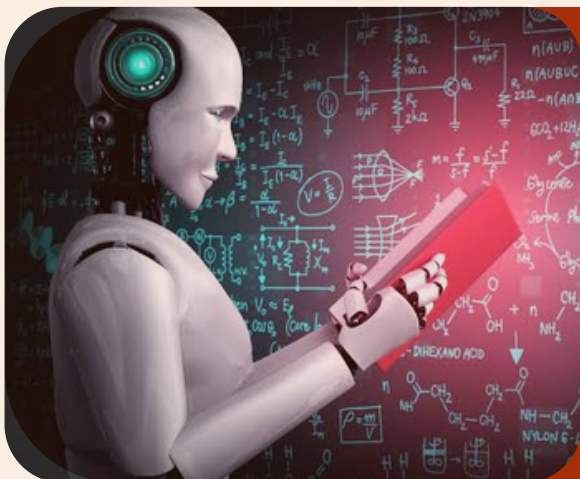
applications in civil engineering : 20-July-2023

AI MODELS IN CIVIL ENGINEERING CAN BE USED FOR ACCURATE, CHEAPER, AND LESS DISRUPTIVE CONSTRUCTION PROJECTS. IN MODERN STRUCTURES, ARTIFICIAL INTELLIGENCE IS BEING UTILISED TO PLAN THE ROUTING OF ELECTRICAL AND PLUMBING SYSTEMS.



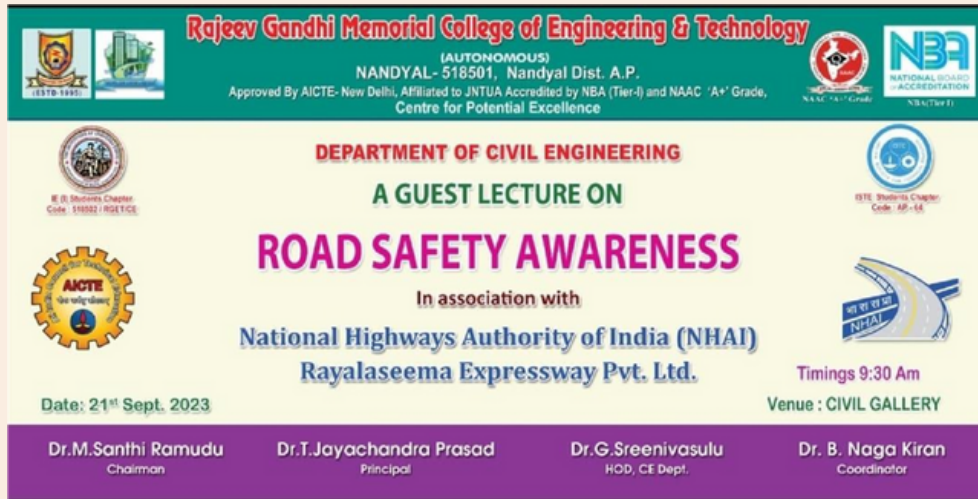
ADVANTAGES OF AI IN CIVIL ENGINEERING

- AI IS USED TO PREVENT COST OVERRUNS.
- AI IS USED TO REDUCE THE RISK OF ACCIDENTS.
- AI IS USED FOR EFFICIENT PROJECT PLANNING.
- AI IS USED TO INCREASE PRODUCTIVITY ON JOB SITES



“PREDICTING THE FUTURE ISN’T MAGIC, ITS ARTIFICIAL INTELLIGENCE”

ROAD SAFETY AWARENESS : 21-Sep-2023



- UNDERSTAND THE IMPORTANCE OF ROAD SAFETY TO PROTECT OURSELVES FROM ACCIDENTS AND INJURIES WHILE COMMUTING TO SCHOOL, COLLEGE, OR OTHER PLACES.
- GAIN KNOWLEDGE ABOUT TRAFFIC RULES AND REGULATIONS TO ENSURE COMPLIANCE AND AVOID LEGAL ISSUES
- RECOGNIZE THE DANGERS OF DISTRACTED DRIVING, ESPECIALLY THE USE OF MOBILE PHONES, AND UNDERSTAND THE IMPORTANCE OF STAYING FOCUSED WHILE WALKING, CYCLING, OR DRIVING.
- ADVOCATE FOR WELL-MAINTAINED AND SAFE ROAD INFRASTRUCTURE, INCLUDING PEDESTRIAN WALKWAYS AND CYCLING LANES, TO ENSURE A SAFER COMMUTING EXPERIENCE FOR STUDENTS.



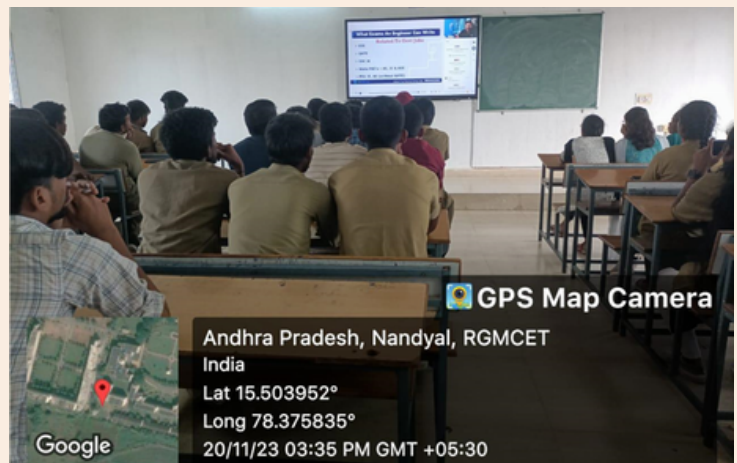
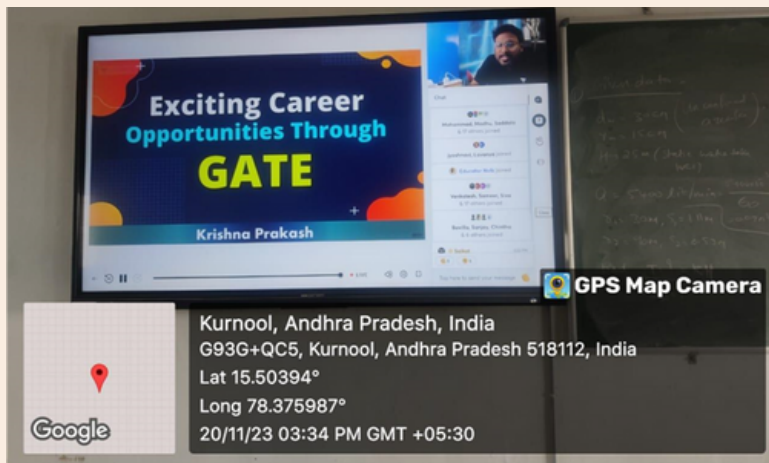
DR.G.SREENIVASULU, H.O.D , EXPLAINING THE IMPORTANCE OF ROAD SAFETY AWARENESS PROGRAMME TO TARGET AUDIENCE

DR. D.V .ASHOKE,DEAN AND DIRECTOR, EXPLAINING THE ACCIDENT SCENARIO ON INDIAN NATIONAL HIGHWAYS TO TARGET AUDIENCE



HOW TO CRACK GATE : 20-Nov-2023

A VALUE ADDED COURSE



IN THIS SESSION, KRISHNA PRAKASH SIR EXPLAINED EXCELLENT CAREER OPPORTUNITY AFTER GATE EXAM.

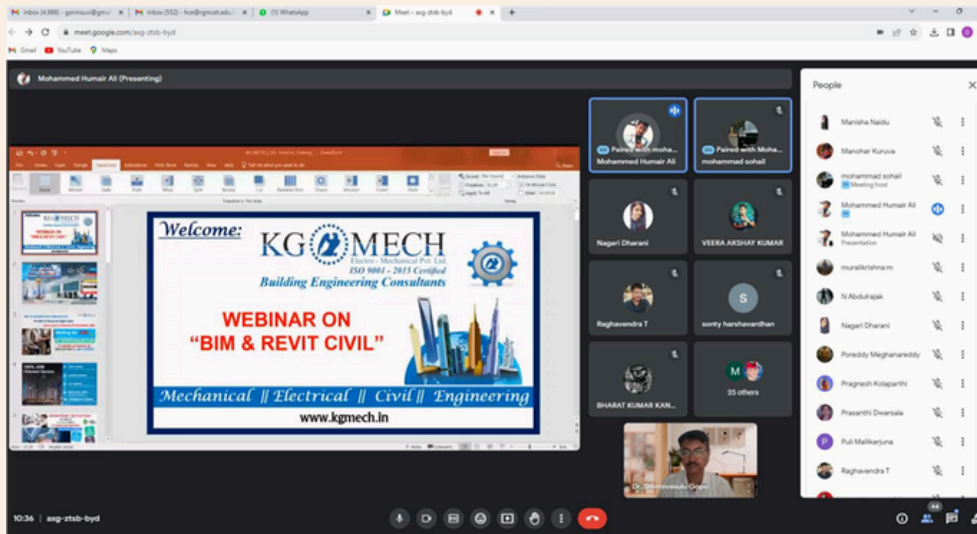
THE PURPOSE OF THE GATE EXAM IS TO TEST STUDENTS' KNOWLEDGE AND UNDERSTANDING OF THEIR UNDER GRADUATE LEVEL SUBJECTS IN ENGINEERING AND SCIENCE. EVERY YEAR LAKHS OF ENGINEERING GRADUATES PASS OUT FROM UNIVERSITIES AND ENGINEERING COLLEGES. GATE IN THE PRESENT COMPETITIVE SCENARIO, TO MEASURE AND TEST THE CALIBER OF ENGINEERING STUDENTS IS POSSIBLE THROUGH THE GATE EXAM ONLY. THE GATE SCORE OF A CANDIDATE REFLECTS THE RELATIVE PERFORMANCE LEVEL OF A CANDIDATE. THE SCORE IS USED FOR ADMISSIONS TO VARIOUS POST-GRADUATE EDUCATION PROGRAMS (E.G., MASTER OF ENGINEERING, MASTER OF TECHNOLOGY, MASTER OF ARCHITECTURE, DOCTOR OF PHILOSOPHY) IN INDIAN HIGHER EDUCATION INSTITUTES, WITH FINANCIAL ASSISTANCE PROVIDED BY MHRD AND OTHER GOVERNMENT AGENCIES.



- AS A THUMB RULE, WHILE SOLVING ANY GATE PROBLEM, IF THE SOLUTION TAKES MORE THAN 8 STEPS, U MUST RE-LOOK AT THE APPROACH. (GENERALLY, GATE PROBLEMS ARE NOT LENGTHY).
- ON THE LAST DAYS OF PREPARATION, IF YOU HAVE ANY DOUBTS ABOUT ANY TOPIC/FORMULA, YOU CAN HAVE A LOOK ON THESE SECTIONS. ALWAYS REMEMBER, MORE DOUBTS LEAD TO MORE CONCEPT BUILDING.
- LEAVE ALL THE BOOKS FEW DAYS BEFORE THE EXAM. HAVE SOME GOOD TIME AND RELAX.
- YOU SHOULD HAVE DONE SUFFICIENT STUDY/ DISCUSSION, SO THAT THE MOMENT YOU START READING THE QUESTION YOU SHOULD HAVE AN INTUITION ON WHETHER YOU CAN SOLVE IT.

WEBINAR PROGRAM ON REVIT

a value added course : 12-Dec-2023

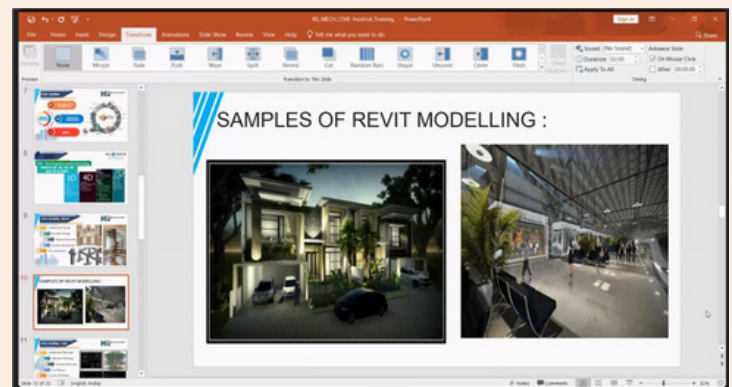


1-DAY VALUE ADDED
COURSE ON “CIVIL
ENGINEERING
BREAKTHROUGH
WEBINAR PROGRAM ON
REVIT PROGRAM

IN THE REALM OF ARCHITECTURAL DESIGN AND CONSTRUCTION, TECHNOLOGY HAS CONTINUOUSLY RESHAPED THE WAY PROFESSIONALS APPROACH THEIR CRAFT. ONE OF THE MOST SIGNIFICANT INNOVATIONS IN RECENT YEARS IS BUILDING INFORMATION MODELING (BIM), AND AT THE FOREFRONT OF BIM TECHNOLOGY STANDS AUTODESK REVIT. THIS REPORT SERVES AS AN INTRODUCTORY EXPLORATION INTO THE TRANSFORMATIVE POWER OF REVIT WITHIN THE ARCHITECTURAL LANDSCAPE

APPLICATIONS IN CIVIL ENGINEERING:

- IMPROVED COLLABORATION AND COMMUNICATION AMONG PROJECT STAKEHOLDERS.
- ENHANCED DESIGN VISUALIZATION AND PRESENTATION CAPABILITIES.
- INCREASED EFFICIENCY AND PRODUCTIVITY THROUGH STREAMLINED WORKFLOWS AND AUTOMATION.
- BETTER-INFORMED DECISION-MAKING THROUGH DATA-DRIVEN DESIGN ANALYSIS.
- ENHANCED COMPETITIVENESS AND MARKET POSITIONING IN AN INCREASINGLY DIGITAL INDUSTRY LANDSCAPE.



APPLICATIONS OF RS & GIS IN AGRICULTURE : 21-Dec-2023

"A MAP IS THE IS THE GREATEST OF ALL EPIC POEMS. ITS LINES & COLORS SHOW THE REALIZATION OF GREAT DREAMS"



A WEBINAR ON "APPLICATIONS OF RS & GIS IN AGRICULTURE". ON BEHALF OF IEEE RGM CET STUDENT BRANCH (16391), GRSS (GEOSCIENCE AND REMOTE SENSING SOCIETY) IS ORGANIZED WEBINAR ON "APPLICATIONS OF RS & GIS IN AGRICULTURE ON 21.12.2023 AT 3.00 PM AT DEPARTMENT OF CIVIL ENGINEERING. RESOURCE PERSON: DR. P.MUHANA. ASSISTANT PROFESSOR (RESEARCH). CENTRE FOR REMOTE SENSING AND GEO-INFORMATICS, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI. HENCE, ALL THE III B.TECH I SEM CIVIL ENGINEERING STUDENTS ARE INFORMED TO PARTICIPATE IN THE WEBINAR WITHOUT FAIL. E-CERTIFICATES WILL BE SENT TO ALL THE PARTICIPANTS. GOOGLE MEET LINK: LINK TO JOIN: [HTTPS://MEET.GOOGLE.COM/ZNV-IIWK-YRC](https://meet.google.com/ZNV-IIWK-YRC) ORGANISER: DR. M. SUNANDANA REDDY GRSS FACULTY ADVISOR DR. G. SREENIVASULU HEAD CIVIL ENGINEERING SPEAKERS RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), NANDYAL GEOSCIENCE AND REMOTE SENSING SOCIETY (GRSS) DEPARTMENT OF CIVIL ENGINEERING PRESENTS A WEBINAR ON 'APPLICATIONS OF RS & GIS IN AGRICULTURE' ON 21 DECEMBER 2023 3:00 PM TO 4:00 PM RESOURCE PERSON GRSS DR. P. MOHANA, RESEARCH SCIENTIST (ASSISTANT PROFESSOR) CENTRE FOR REMOTE SENSING AND GEOINFORMATICS, SATHYABAMA



PUBLICATIONS

a) Journals Articles:

- SUKHEET ARORA, HARISH KUMAR PATEL, **G.SRINIVASULU**, BIMLESH KUMAR, 2023, “TURBULENT CHARACTERISTICS AT INTERFACE OF PARTLY VEGETATED ALLUVIAL CHANNEL”, ‘INTERNATIONAL JOURNAL OF CIVIL ENGINEERING’,
- FAISAL MEHRAJ WANI, JAYAPRAKASH VEMURI, **CHENNA RAJARAM**, AND K. S. K. KARTHIK REDDY, 2023 “INVESTIGATING THE EFFICIENCY OF MACHINE LEARNING ALGORITHMS IN CLASSIFYING PULSE-LIKE GROUND MOTIONS”, ‘JOURNAL OF SEISMOLOGY’,
- **CHENNA RAJARAM**, NEELIMA PATNALA, JAYA PRAKASH VEMURI AND RAMANCHARLA PRADEEP KUMAR, 2023 “INSIGHTS ON THE JUNE 21, 2022, KHOST EARTHQUAKE, AFGHANISTAN”, ‘SADHANA JOURNAL’, 21 JULY 2023, INDIAN ACADEMY OF SCIENCES
- FAISAL MEHRAJ WANI, JAYAPRAKASH VEMURI, **CHENNA RAJARAM**, 2023 “INFLUENCE OF NEAR-FAULT GROUND MOTION CHARACTERISTICS AND THE RELATIVE GEOGRAPHICAL POSITIONING OF SITES ON THE SEISMIC RESPONSE OF RC STRUCTURES”, ‘INTERNATIONAL JOURNAL OF STRUCTURAL INTEGRITY’, ‘EMERALD PUBLISHING LIMITED’,
- FAISAL MEHRAJ WANI, JAYAPRAKASH VEMURI, **RAJARAM CHENNA**, 2023 “PREDICTION OF STOREY DRIFT FOR REINFORCED CONCRETE STRUCTURES SUBJECTED TO PULSE LIKE GROUND MOTIONS USING MACHINE LEARNING CLASSIFICATION MODELS”, ‘INTERNATIONAL JOURNAL OF STRUCTURAL INTEGRITY’, ‘EMERALD PUBLISHING LIMITED’,

b)Scopus:

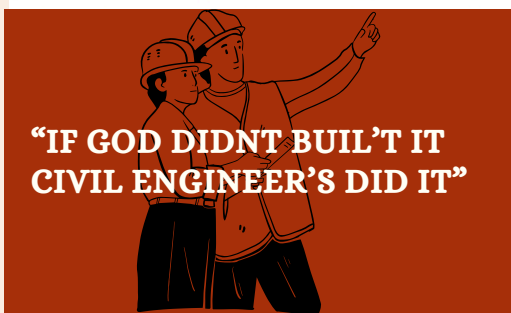
- DR. SANTOSH K PATIL, **DR. B. NAGA KIRAN**, K. PORULSELVI, DEVENDRA DOHARE, DR. DHIRENDRA KUMAR CHAUDHARY, B.S. VEENA. (2023) “COMPREHENSIVE REVIEW ON 3D CONCRETE PRINTING TECHNOLOGY IN THE MODERN CONSTRUCTION INDUSTRY”. MATERIAL SCIENCE AND TECHNOLOGY.

c) Others:

- ANKIREDDYPALLI GANGA CHANDRA SEKHAR REDDY, THATI SUCHARITHA, YERAGOLLA LEELAVATHI, BOYA SAI SANDEEP, MALLEPOGU SAI CHARAN, **CHAMARTHY KRISHNAMA RAJU**, “COMPRESSIVE STRENGTH OF DIFFERENT GRADES OF SCC MIX USING PORTLAND SLAG CEMENT (70%) AND GGBS (30%) AND REPLACING 20% FINE AGGREGATE WITH COPPER SLAG ”,’INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET)’,

d) Books Published:

- “HIGHWAY MATERIALS AND TESTING” BOOK PUBLISHED BY **DR. B. NAGA KIRAN** (AUTHOR), **DR. B.SUDHARSHAN REDDY** (AUTHOR), **DR. R. PREMSUDHA** (AUTHOR), **MOHAMMAD PARVEJ ALAM** (AUTHOR), **A USHA** (AUTHOR). PUBLISHER : JEC PUBLICATION (6 DECEMBER 2023). PERFECT PAPERBACK : 91 PAGES.



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Approved by AICTE, Accredited by N.B.A, NewDelhi, NAAC-A+ Grade

