

Recent Innovation in Engineering

22-23, February 2017





Organised by

G. M. Vedak Institute of Technology, Tala (Approved by AICTE, New Delhi, Recognized by DTE, Government of Maharashtra & Affiliated to University of Mumbai

Patrons:

Hon. Shri. Nandkumar Gopinath Vedak, Chairman GMVIT. Hon. Shri. Unmesh Nandkumar Vedak, Secretary GMVIT. Hon. Shri. J. K. Jadhav, Former Additional Director of Industries M.S. Shri. S.P. Kulkarni, Registrar, GMVIT.

Technical Advisory Committee:

Dr. D.G. Borse, Principal A.C. Patil College of Engineering.
Dr. S.D. Sawarkar, Principal DMCE, Airoli.
Dr. P.P. Nagrale, Professor S.P.C.E. Mumbai.
Dr. S.B. Charhate, Professor & Dean, Pillai HOC, COET.
Dr. H. S. Chore, HOD DMCE, Airoli.
Dr. R.B. Buktar, Professor S.P.C.E. Mumbai
Dr. Kiran Bhole, Associate Professor S.P.C.E. Mumbai.
Dr. S.L. Nalbalwar, Associate Professor &HOD, BATU, Lonere

Chief-Convener:

Dr. S.V. Patil (GMVIT, Principal)

Convener:

Prof. A. P. Patil (GMVIT, Dean)

Co-Conveners:

Prof. P.R. Kunekar (Computer)
Prof. Y.R. Galinde(Civil)
Prof. P.M. Dhongade (Mechanical)
Prof. S.E. Gawali (ExTC)

Chief-Coordinator:

Prof. V. H. Kshirsagar

Coordinator:

Prof. S. D. Jadhav Prof. M. M. Badadare Prof. R. O. Singh Prof. S. R. Raut Prof. D. D. Dalvi ABSTRACT (EXTC ENGINEERING)

SR. NO		AUTHORS NAME	PAGE NO.
1	TOUCH SCREEN BASED AUTOMATIC MEDICINE VENDING MACHINE	1. SHREYA S. APTE, 2. APURVA A. LOHAR 3. DIKSHA A.THORE, 4. PRERANA P.UMROTKAR.	1
2	BLINDMAN STICK USING ULTRASONIC	1. ROHIT S. TAR, 2. TEJAS S. MOKAL,S 3. AMEER S. BHAGAT, 4. SIDDHESH V SATPUTE.	1
3	EMBEDDED WEB SERVER BASED BRIDGE MONITORING USING RASPBERRY-PI BOARD	1. MONIKA S.MHATRE, 2. GANESH S. JANGAM, 3. PRASHANT P.PALKAR, 4. TEJESH D. PATIL, 5. SATISH D. JADHAV,	2
4	TRAVOLUTION- COMPLETE VEHICLE DRIVE SAFETY AND SECURITY SYSTEM	1. MEHUL TONDALEKAR, 2. PAVITRA JENA, 3. SHREEKANT NADKAR, 4. ARFAT PATHAN, 5. RAEES HUSAIN, 6. S.E. GAWALI	2
5	PLC BASED AUTOMATIC MULTILEVEL CAR PARKING SYSTEM	VAIBHAV C. KHOT MAHENDRA Y.DAPKE JITENDRAJ.DANDEKAR YOGESH R.DESHMUKH.	3
6	IMAGE PROCESSING BASED TOMATO MATURITY GRADING SYSTEM	1. MADHURA A. GURAV 2. SURAKSHA D. GHARAT 3. JUILI S. NAIK 4. SAYALI R. PATIL 5. SNEHAL.B.MORE	3
7	TRAIN INDICATION AND SAFETY MANAGEMENT	SUFIYAN S. KUPE AKSHAY E. GUJAR KETAN M. GAIKWAD	4
8	RECOGNITION OF HUMAN EMOTIONS USING SUPPORT VECTOR MACHINES AND SPECTRAL FEATURES	4. PARESH A. JADHAV 1. MITESH N. THAVAI 2. REKHA R. DHAWAN.	4
9	REMOTE OPERATED DOMESTIC APPLIANCES CONTROL BY ANDROID	1. PRATIK P.MUNDHE 2. AKSHAY J.PATIL 3. SAMEER B.SHINDE 4. ABHIJEET B.PATIL 5. SANJAY S. GAWALI	5
0	APPLICATION OF VEDIC MATHEMATICS IN DIGITAL SIGNAL PROCESSOR	SHEETAL A PANGARKAR.	5
	AUTO POWER BACKUP SYSTEM	1. ROHIT A. MHATRE 2. PRANIT A.MORE 3. SURAJ M. SHINDE 4. VRUSHABH B. MHATRE	6
	IOT BASED ELECTRONIC NOTICE BOARD WITH WEB & SMS INTERFACE	5. SATISH D. JADHAV, 1. SATISH D. JADHAV	6
3	STUDY OF VARIOUS CLASSIFIERS FOR HUMAN EMOTION RECOGNITION FROM SPECIAL	2. YOGITA MISTRY. 1. ANURADHA.M.SALVI	7
1	INDUSTRIAL IOT	2. MITESH.N.THAVAI. 1. S. G. THALKAR 2. S. C. PANCHAL.	7
	DESIGN AND IMPLEMENTATION OF EMBEDDED WEB SERVER USING RASPBERRY PI FOR MONITORING ENVIRONMENT OF SOLARSYSTEM	K.S. LONDHE PROF. ASOKAN S.	8

ABSTRACT (COMPUTER ENGINEERING)

SR NO.	TITLE OF PAPER	AUTHOR	PAGE NO.
1	DIGITAL ORDERING SYSTEM FOR RESTAURANT USING WINDOWS	1. ABHISHEK SHARAD MAHADIK 2. PRIYANKA GAJANAN BHUSANE 3. VIRAL PRAFULLA TANNA 4. PROF.RAGHVENDRA SINGH 5. TANUJA NARENDRA PATIL 6. JAYASHREE RAJU LINGANNA	9
2	E-LIBRARY FOR OFFLINE DOWNLOADING USING MAC	1. ASMA A.MAJID CHILWAN 2. MRUDULA UMESH DESHMUKH 3. PRIYANKA SITARAM PATIL 4. PRANITA GAJANAN JOSHI 5. PROF.ROHIT.S.KULKARNI	10
3	DETECTION AND ELIMINATION OF WORMHOLE ATTACK WITH ENERGY LEVEL	1. DHIRAJ S. JAYSWAL 2. BHAVESH N. MHATRE 3. CHAITANYA D.PATIL 4. PROF.VISHVAS KSHIRSAGAR 5. ADARSH R. MHATRE	11
4	MAXIMIZING ENERGY EFFICIENCY IN MULTIPLE ACCESS	HARSHAL VASANT NEHE AJIT MILIND GANDHE PROF.VISHVAS KSHIRSAGAR	11
5	SURVEY ON SECURITY ISSUES AND INFLUENCES ON SOCIETY OF DIGITIZATION USING BIG DATA	PROF.RAJKUMAR B. PAWAR PROF.AKSHAYA A. BHOSALE PROF.GANDHALI G. DORLEKAR	12
6	INTELLIGENT SURVEILLANCE SYSTEM	SUMIT BALARAM PATIL SANKET SANDEEP PINGALE HITESH CHANDRAKANT SHINE PRERANA UMESH PUJARI PROF. PANKAJ KUNEKAR	12
7	IMPLOSION DETECTION BASED ON ROUND TRIP DELAY AND PATHS (ID-RTDP) FOR SENSOR NODE IN WSNS	JAYESH N. PATIL DR.ASHOK KANTHE	13
8	DEFENSE MECHANISMS FOR DDOS ATTACKS	MRS.METHA KADAMBARI RITESH MRS.DIKHA KALE.	13
9	MULTI SMS BANKING	MS. MANASI S. SHETYE MS. SAYALI M.BHELSAIKAR	14
10	COMPARITIVE STUDY OF PERFORMANCE OF DATA MINING CLASSIFICATION ALGORITHMS IN WEKA	NIKHIL NANDKISHOR SALVITHAL	14

SR NO	TITLE OF DARES	AUTHOR	
11	CREDIT CARD FRAUD DETECTION TECHNIQUES	OMKAR MORE RISHIKESH TAMBAT YOGESH PATIL MANOJ SURVE	15
12	PACE OF ADOPTION OF CLOUD BY STARTUPS TO BOOST BUSINESS VALUE	PROF.P.R.KUNEKAR PROF.V.H.KSHIRSAGAR MR. VIPUL MASAL	15
13	SAVING BATTERY OF MOBILE STATION & RESPONSE TIME BY SERVER WITH COMPRESSION	ROHIT KULKARNI RAGHVENDRA SINGH	16
14	PREVENTING ANONYMOUS NETWORK FROM ABUSIVE USER(PANAU)	1. PROF. SACHIN S. KASARE	16
15	VIRTUAL DRESSING ROOM USING NEWTON'S MECHANICS	BHALEKAR SOURABH CHITTE DARSHAN DHAMAL HEMANT GANESHWADE PRIYANKA RANKHAMBE JAYASHRI	17
16	PLACEMENT HUB	HARSHADA JAYAWANT CHAVAN SHRUTIKA SANTOSH TATKARE SUARABH SHARAD JADHAV PROF. PANKAJ R. KUNEKAR	18
17	PERSPECTIVE ON THE MANAGEMENT OF SECURITY IN CLOUD COMPUTING	SIDDHESH JADHAV MOHAN PRAMOD PATIL	18
8	SECURE MULTIHOP INTELLIGENT TRANSMISSION (SMIT) FOR WIRELESS NETWORK	SUMIT SHIVAJI DALVI DR. ASHOK KANTHE	19
9	EXECUTION OF APRIORI ALGORITHM FOR FINDING FREQUENT ITEMSETS USING CANDIDATE GENERATION	1. PROF.S.K.THAKUR	19
0	SMARTCRAWLER: A TWO-STAGE CRAWLER FOR EFFICIENTLY HARVESTING DEEP- WEB	TAHURA HANIF TULVE OMKAR JAIDAS NAWALE VRUSHALI BALKRUSHNA BHOSLE PROF . RAGHVENDRA SINGH SANKET SANTOSH PAWAR	20
	FAULT TOLERANCE IN THE MOBILE AD HOC NETWORK FOR NETWORK SURVIVABILITY	PROF. VISHVAS KSHIRSAGAR MS. SONALI P. MULIK PROF. PANKAJ R. KUNEKAR	20

ABSTRACT(CIVIL)

SR. NO.	TITLE OF PAPER	AUTHORS	PAGE NO.
t	BEHAVIOUR OF RC OVERHEAD WATER TANK UNDER DIFFERENT STAGING PATTERNS	A.H. SHRIGONDEKAR G.D. PARULEKAR V.R. KASAR	21
2	EXERCISING LEAN TECHNIQUES TO REDUCE WASTE & IMPROVE PERFORMANCE OF MUNICIPAL PROJECT DELIVERY IN MUMBAI	HARESH S. PALVE. DR. SAHAJANAND KAMAT	21
3	REPLACEMENT OF COARSE AGGREGAT BY USING NATURALLY AVAILABLE MATERIALS	KAUSHIK RAHATE, SUDHAKAR SINGH, RAHUL KELKAR MAYURESH KHAJANWADKAR	22
4	PRODUCTIVITY ANALYSIS OF PILE DRIVING EQUIPMENT	PRAKASH H. PANDA, DR. SAHAJANAND KAMAT	23
5	COMPARATIVE AND COST ANALYSIS OF CONVENTIONAL & MIVAN FORMWORK A CASE STUDY	1. AFIF KARDEKAR, 2. CHAITALI PATIL, 3. KARAN PATIL, 4. SHARAD VISHWAKARMA, 5. S. A. RAUT 6. U. W. MATE	23
6	IMPACT ORIENTED TECHNIQUES FOR IMPROVEMENT OF GROUND – A REVIEW	AJEET KUMAR, NANCY SONI, ANKITA R. BHOIR, MANOHAR T. KHANDEKAR,	24
7	OPTIMUM UTILIZATION OF CONSTRUCTION EQUIPMENTS ON BUILDING SITE.	1. D.B. PHADATARE, 2. DR. S.B.CHARHATE	24
8	DESIGN OF ELEVATED PARKING SYSTEM IN KOLHAPUR CITY	1. ROSHAN R. BHOJANE, 2. PAYAL P. MAHAJAN, 3. ANKITA A. SHIGAVAN, 4. NEHA C. SURVE	25
9	DESIGN AND DEVELOPMENT OF GUI FOR RATE ANALYSIS OF BUILDING CONSTRUCTION USING VISUAL BASIC	I. DIGVIJAY B. LOKHANDE, 2. A. R. KHAMBEKAR	25
10	STUDY OF CELLULAR LIGHT WEIGHT CONCRETE BLOCKS	ASHWINI SHINDE, AISHWARYA KANTAK, PRASHALI PATIL, DARSHANA JAVARAT, MANOHAR KHANDEKAR	26
11	USE OF PLASTIC BOTTLES GRANULES FOR SOIL STABILIZATION AND DESIGN OF FLEXIBLE PAVEMENT	1. PRAVIN BHOIR, 2. KALPESH SURTE, 3. AKASH TETGURE, 4. SWAGAT THAKUR, 5. ATULYA PATIL	27
12	A STUDY ON VALUE ENGINEERING IN BUILDING CONSTRUCTION	1. RITESH GHARAT, 2. MAHESH RATHOD, 3. SUSHANT SHINDE, 4. AKSHAY TOPALE, 5. Y.R.GALINDE. 6. A.P.PATIL.	28

SR. NO.	TITLE OF PAPER	AUTHORS	PAGE NO.
13	USE OF PLASTIC BOTTLE FIBERS IN CONCRETE	1. PRATHAMESH KARANJE, 2. YOGESH CHAVAN, 3. AMOL CHAVAN, 4. PANKAJ BHASALE, 5. KAMLESH MESHRAM, 6. MANOHAR KHANDEKAR	29
14	USE OF QUARRY DUST FOR SOIL STABILIZATION	1. SUSHANT KAMBLE, 2. UMESH KHARAT, 3. RAGIL NAIR, 4. ANIKET VELE, 5. MANOHAR KHANDEKAR, 6. KAMLESH MESHRAM	30
15	CHALLENGES IN THE PLANNING OF CITIES IN INDIA	1. ANKITA R.BHOIR, 2. AJEET KUMAR, 3. DARSHANA CHAVAREKAR, 4. NANCY SONI.	30
16	ANALYTICAL APPROACH TOWARDS THE EFFICIENCY OF EFFLUENT TREATMENT PLANT OF PHARMACEUTICAL INDUSTRY	DARSHANA CHAVAREKAR, ANKITAR.BHOIR, DIPIKA D. DALVI	31
17	STUDY ON USE OF RECYCLED CONCRETE AGGREGATES AND GROUND GRANULATED BLAST FURNACE SLAG IN CONCRETE	DIPIKA D. DALVI , DR.SHRIKANT CHARHATE	32
18	STABILIZATION OF LOCAL SOILS USING COMBINATION OF LIME AND ALCCOFINE	YUGANDHARA R.GALINDE, DR.SHRIKANT CHARHATE	32
19	EFFECT OF REPLACEMENT OF CONVENTIONAL BRICKS WITH LIGHTWEIGHT CELLULAR CONCRETE BLOCK ON COLUMN AND FOUNDATION FOR RESIDENTIAL BUILDING	PROF. MANOHAR T. KHANDEKAR	33
20	STUDY OF DROUGHT IN MARATHWADA AND ITS ANALYSIS	1. PAWAN SHELAVALE, 2. OMKAR KAPADI, 3. TRUPTI CHAVAN, 4. AKSHAY PATIL, 5. ATULYA PATIL	33
21	EXPERIMENTAL INVESTIGATION OF REINFORCED CONCRETE BEAMS WITH AND WITHOUT CFRP WRAPPING	1. SUCHITA MHATRE, 2. BHUSHAN MHATRE, 3. AMRUTA MHATRE, 4. AKSHAY KOTHMIRE, 5. MANOHAR KHANDEKAR	34
22	DESIGN OF FLY ASH STABILIZED FLEXIBLE PAVEMENTS AND ITS ECONOMICS	SWAPNIL A. RAUT, DR. PRASHANT P. NAGRALE	34
23	FINANCIAL ANALYSIS OF RESIDENTIAL BUILDING	1. ABHISHEK DHAWAL, 2. SURAJ PATIL, 3. SAJAN KADU, 4. VISHNU SHELKE, 5. SWAPNIL RAUT	35
24	APPLICATION OF BOX PUSHING TECHNIQUE ON ROAD UNDER BRIDGE CONSTRUCTION.	1. TUSHAR BHOIR, 2. VINAYAK MOHITE, 3. VISHWAJEET SHARMA, 4. AASIM SHAIKH, 5. Y.R.GALINDE.	35
25	IMPROVEMENT IN CHARACTERISTIC STRENGTH OF SUBGRADE SOIL BY USING LIME AND ECONOMICAL ANALYSIS OF STABILIZED PAVEMENT	ATULYA PATIL, DR. PRASHANT P. NAGRALE	36

ABSTRACT (MECHANICAL ENGINEERING)

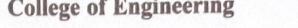
SR.		AUTHORS	PAGE NO.
1	A NUMERIACAL AND EXPERIMENTAL STUDY ON EFFECTIVE THERMAL CONDUCTIVITY OF EPOXY- AI2O3 COMPOSITES - A REVIEW	VINAYAK G. KACHARE MAHESH M. KADAM PRATHAMESH P. CHOUGHULE	37
2	DESIGN AND ANALYSIS OF WINDMILL SHAFT USING COMPOSITE MATERIALS	AMOL SHINDE DR. ASHOK KECHE	37
3	MODELING & ANALYSIS OF SHELL & TUBE HEAT EXCHANGER	MOMIN AMIR, KAZI ZAKI, KARJIKAR SHABIB JAMADAR AHMED PROF. PANKAJ DHONGADE	38
4	METHODS OF BALANCING FOR UNBALANCED TRANSPORTATION PROBLEM: REVIEW	1. MR.SIDDHESH KAMAT	38
5	PROGRESSIVE FAILURE ANALYSIS OF COMPOSITE FLAT PANELS WITH CIRCULAR CUTOUT USING HASHIN'S CRITERIA	GAUSPIRA S. MAKANDAR VAIBHAV APPASO UGARE	39
6	ELECTRIC FIELD STRUCTURE ANALYSIS OF ELECTROSPINNING OF POLYMER NANOFIBERS BY ANSOFT AND ANSYS	1. PROF P.M.AUTADE 2. DR. H.N.NARASIMHA MURTHY	39
7	FINITE ELEMENT ANALYSIS OF A STIFFENED PANNEL WITH TWO BAY CRACK UNDER UNIAXIAL LOADING	PROF. A.R.GHADGE PROF. M.M. BADADARE	40
8	DESIGN AND ANALYSIS OF FLYWHEEL FOR DIFFERENT GEOMETRY AND FOR DIFFERENT MATERIAL	I. SIDDHESH VELHAL, 2. DEEPAK GUPTA, 3. MACHINDRA MHATRE 4. TEJAS PIMPLE 5. PROF. P.M. AUTADE	40
9	DESIGN AND FABRICATION OF STIRRUP BENDING MACHINE	I. KHATIB SUFIYAN 2. PAWAR ROHAN 3. MANYAR SOHEB 4. PARKAR RAEES A. 5. PROF. I.N.MAGDUM	41
10	DESIGN AND FABRICATION OF PORTABLE AIR CONDITIONER	SUMIT SUNIL WARE PRASAD KASHINATH PATIL AKSHAY CHANDRAKANT PATIL AJIT BIRENDRA MISHRA PROF. AJIT KAKADE	41
11	OPTIMIZATION OF LEAF SPRING USING COMPOSTIE MATERIAL	1. VIRAJ V. TAMBOLI 2. ABHISHEK D. THAKUR 3. AKSHAY J. MOKAL 4. PRASAD A. SUKAM 5. Prof. G.S.MAKANDAR	42
12	DESIGN OF PRESSURE VESSEL	SUMIT S. NIRKAR CHINMAY K. BHOIR VISHAD V. DHATAVKAR PRATHAMESH R. AMBUKAR PROF. A.R.GHADGE	42

SR. NO	TITLE OF PAPER	AUTHORS	PAGE NO.
13	DESIGN OF FLOOR WASHER	1. ROHIT Y.PATIL 2. KETAN P.PATIL 3. KALPESH G. PATIL 4. NIKHIL K. BHAGAT 5. PROF. A.R.GHADGE	43
14	IMPLEMENTATION OF POKA-YOKE TECHNIQUE FOR IMPROVING QUALITY AT HRCTL IN STEEL INDUSTRIES	PROF. PANKAJ M DHONGADE MR. VIVEK A SHROUTY	43
15	NUMERICAL MODELING OF LAZER WELDING	I. MR. AJIT D. KAKADE 2. MR. EKNATH UGALE	44
16	DESIGN AND MANUFACTURING OF PLASTIC BOTTLES STRIP CUT MACHINE	ARBAZ AYUB DHOKLE KUNAL PRABHAKAR BHOIR AKSHAY VIJAY SUKALE ALBAKHSH IQBAL TAMAKE	44
17	OPTIMIZATION OF PROCESS PARAMETERS OF PLASMA ARC CUTTING USING BOX-BEHNKEN DESIGN	5. PROF. SIDDHESH KAMAT 1. INDRAJEET N. MAGDUM 2. JITESH G. BHAGAT 3. DR. M. T. TELSANG	45
18	REGENERATIVE SUSPENSION SYSTEM FOR AIR CONDITION	1. PANDIT SUJEET SHIVNARAYAN 2. KOLI ANKIT KAMALAKAR 3. JOYA LALITKUMAR KISHOR 4. MOHAPE SUNIL DHANAJI 5. PROF. SIDDHESH KAMAT	45
19	SYNTHESIS OF FE-BHA NANOCOMPOSITE AS OXYGEN CARRIER FOR CHEMICAL LOOPING COMBUSTION	PROF. M.M. BADADARE PROF. A.R.GHADGE	46
20	DESIGN & MANUFACTURING OF SPECIAL-PURPOSE MACHINE	1. SUSHANT GHASE 2. ROHAN UBHARE 3. YUGESH MALI 4. SAMIR TUPKAR 5. PROF. M.M. BADADARE	46
21	PERFORMANCE OF CARBIDE INSERTS DURING MACHINING OF STAINLESS STEELS IN DIFFERENT CONDITIONS	JITESH G. BHAGAT INDRAJEET N. MAGDUM DR. VIKAS G. SARGADE	47
22	HEAT TRANSFER AUGMENTATION THROUGH A CIRCULAR TUBE FITTED WITH SWIRL FLOW GENERATOR	I. DR. S V. PATIL	47
23	MECHANISATION OF SUGARCANE PLANTER	1. VIJAY PATIL 2. SAMEER MHATRE 3. AKHILESH GHAVTE 4. DILIP HADAL 5. PROF.M.M.BADADARE	48
24	DESIGN AND FABRICATION OF GRAPPLING GUN	1. VISHWAM H. AREKAR 2. SHUBHAM G. DHUPKAR 3. SAURABH S. PATIL 4. SHUBHAM V. PATIL 5. JITESH G. BHAGA	4

Shri Gepinath Mahadeo Vedak Pratishthan's

G. M. Vedak Institute of Technology

College of Engineering





National Conference on Recent Innovation in Engineering NCRIE-2017

February 22-23, 2017

Certificate

This is to certify that, Dr. /Prof./Mrs./Ms. Jitesh	Ganpat Bhagat of
E.M. Vedak Instt. of Technology has Presented	la Paper titled "Design and
fabrication of Grappling Gun.	in the National Conference on Recent
Innovation in Engineering (NCRIE-2017) held on 22-23 Feb	oruary 2017.

Prof. V. H. Kshirsagar Chief-Coordinator

Prof. A. P. Patil Convener

Chief-Convener / Principal

At Post & Taluka: Tala, Dist.: Raigad, Off Indapur on Mumbai Goa Highway (NH-17), Maharashtra-402111. www.gmvit.com