

# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science, Bangalore - 560 012

List of projects selected for “PROJECT OF THE YEAR” award  
during the **Seminar and Exhibition of Student Projects – 35<sup>th</sup> SERIES: 2011-12**

held on 13<sup>th</sup> and 14<sup>th</sup> July 2012 at

**SHREE DHARMASTHALA MANJUNATHESHWARA INSTITUTE OF TECHNOLOGY, UJIRE**

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

## **BEST PERFORMING COLLEGE AWARD: 2011-12: 35<sup>TH</sup> SERIES OF SPP**

**SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR**

### **BEST PROJECTS OF THE YEAR (Seminar projects)**

#### **AUTOMOBILE ENGINEERING**

##### **1. EXPERIMENTAL INVESTIGATION OF LOCAL HEAT TRANSFER CHARACTERISTICS IN A SQUARE DUCT WITH DELTA WING VORTEX GENERATOR**

– **BLDEA'S DR. PGH COLLEGE OF ENGINEERING AND TECHNOLOGY, BIJAPUR**

GUIDE : PROF. ANANDKUMAR S. MALIPATIL

STUDENTS : PAVAN DESHAPANDE, PRASHANT SURPUR,  
RAYAPPA NANDAGAON, SHARANAPPA TALAWAR

#### **BIOTECHNOLOGY**

##### **2. EVALUATION OF HYPOGLYCEMIC AND ANTIDIABETIC ACTIVITIES FROM SELECTED PLANTS**

– **BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE**

GUIDES : MANJUNATH N. S., SUJATHA M. L. and DR. B. E. RANGASWAMY

STUDENTS : GHAZALA ANJUM, MANASA N., SABAHATH NAZNEEN TAJ, SHANTHA B. T.

#### **CIVIL ENGINEERING**

##### **3. COFFEE WASTE TREATMENT USING BIOREACTOR**

– **MS RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE**

GUIDE : UMADEVI B.

STUDENTS : ADITYA P. S., DEEPANSHI JAIN, DONAL NIXON D'SOUZA, S. SAVITHA SAGARI

##### **4. A STUDY ON THE BEHAVIOR OF CONCRETE FILLED TUBULAR COLUMNS**

– **SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE**

GUIDE : H.RAVIKUMAR

STUDENTS : ANUSHA P. S., JAYANTH R. K., SHRINIDHI DEEKSHIT, SHWETHA P.

#### **CHEMICAL ENGINEERING**

##### **5. ENERGY RECOVERY FROM ORGANIC WASTE**

– **SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD**

GUIDE : LOKESHWARI N.

STUDENTS : MADHUCHANDRIKA C. BENTUR, RACHANA V. ANGADI, RAJANI PATIL

## **ENVIRONMENTAL ENGINEERING**

### **6. BIOENCAPTUREMENT OF CHROMIUM (VI) USING ASPERGILLUS NIGER**

- VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSORE

GUIDE : SHILPA B. S.

STUDENTS : FASIHA TABASSUM, MAHESH S, KUSUMA Y and SURAKSHA M. N.

## **COMPUTER SCIENCE AND ENGINEERING**

### **7. VISION BASED GAME DEVELOPMENT USING HUMAN COMPUTER INTERACTION**

- SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

GUIDE : SANTHOSH KUMAR H.

STUDENTS : VIVEK, SAHANA K. M, SUNITHA R and SAMEER KUMAR VERMA

## **INFORMATION SCIENCE AND ENGINEERING**

### **8. AUTOMATIC DETECTION AND RECOGNITION OF TRAFFIC SIGN BOARDS**

- BVB COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI

GUIDE : MS. NEHA TARANNUM I. P.

STUDENTS : NILAMBER SINGH, NIRANJAN P. T, NITYA P. N and SHRUTI KULKARNI

## **ELECTRONICS AND COMMUNICATION**

### **9. SMART FARMER ASSISTANT**

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

GUIDE : PROF T. R. SATEESH KUMAR

STUDENTS : KIRAN C. PATTANASHETTY, NITESH SATISH MESTA, PANKAJ SHARMA and SHASHIDHAR POTDAR

## **ELECTRICAL AND ELECTRONICS**

### **10. ENERGY PARK [PICO HYDRO POWER GENERATION UNIT]**

- SDM INSTITUTE OF TECHNOLOGY, UJIRE, DHAKSHINA KANNADA

GUIDES : DR. M. G. ANANTHAPRASAD and MR. SHYNE M. V.

STUDENTS : GIRISH P.MAKARABBI, NAGARAJ B. VAIDYA, PRASHANTH H. S and RADHIKA PRIYADARSHINI

## **SPECIAL PRIZE (Seminar projects)**

## **TELECOMMUNICATION ENGINEERING**

### **11. INPAINTING AND CHARACTER RECOGNITION FOR PRESERVATION OF HERITAGE IMAGES**

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

GUIDE : DR. K. VISWANATH

STUDENTS : ARCHANA G, GURUNATH REDDY M, SAUMYA K. S and SRIHARSHA K.

## **BIOMEDICAL ENGINEERING**

### **12. DEVELOPMENT OF ELECTRONIC NOSE FOR DIAGNOSIS OF LUNG CANCER AT EARLY STAGE**

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

GUIDE : MR. ANJANEYA L. H and MS. SHREYA B. N.

STUDENTS : ABHILASHA M, GLARY PLACID FERNANDES and NITHIN SHEKAR K

## **ELECTRICAL AND ELECTRONICS ENGINEERING**

### **13. HAND TALK USING FLEX SENSORS WITH VOICE INDICATION - ASSISTIVE TECHNOLOGY FOR THE SPEECH AND HEARING IMPAIRED**

- **KS INSTITUTE OF TECHNOLOGY, BANGALORE**

GUIDE : JAYAGOWRI R.

STUDENTS : MENUKA GHOSH, SHIBANI N, SHILPA H and THRISHA K

## **ELECTRONICS AND COMMUNICATION**

### **14. AUTOMATIC LICENSE PLATE RECOGNITION SYSTEM FOR VIDEO SEQUENCE WITH MOTION DE-BLUR ALGORITHM**

- **SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR**

GUIDE : DR. R. SRIKANTASWAMY

STUDENTS : MOHAMED ISMAYIL, MANJUSHREE R, ROOPADARSHINI C. K and JAYANTH ATHREYA R

## **BEST PROJECTS OF THE YEAR (Exhibition projects)**

## **MECHANICAL ENGINEERING**

### **15. CORN DESEEDING MACHINE**

- **MARATHA MANDAL ENGINEERING COLLEGE, BELGAUM**

GUIDE : ANANT GHADI

STUDENTS : VINAYAK KADAM, SAGAR YALIGAR, PAVAN JHAVALKER and SOMANATH KALGAL

### **16. RE-BAR BENDING MACHINE**

- **MARATHA MANDAL ENGINEERING COLLEGE, BELGAUM**

GUIDE : MR. SURESH MARSHAL

STUDENTS : NIKHIL KUDLE

SHAILESH DESURKAR

PUNDLIK BALEKUNDRI

IRFAN SOUDAGAR

### **17. DESIGN AND FABRICATION OF AUTOMATED VALVE**

- **SG BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELGAUM**

GUIDE : PROF. S. B. BIDRE

STUDENTS : RAGHUNANDAN RAMESH NAIK

MAYANK JAIN

RAKESH E. JINAGA

SUSHANT PATIL

## **ELECTRICAL AND ELECTRONICS**

### **18. INDUCTION MOTOR AS WELDING TRANSFORMER**

- **HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI**

GUIDE : PROF. S. B. PATIL

STUDENTS : RUSHIKESH RINGANE, VIJAY SARANG, POONAM WANDRE & SWAPNIL MANAGULE

## **ELECTRONICS AND COMMUNICATION**

### **19. EOG BASED HMI FOR PARALYSED PEOPLE TO CONTROL ELECTRICAL DEVICES**

- **ACHARYA INSTITUTE OF TECHNOLOGY, BANGALORE**

GUIDE : SUMALATHA S.

STUDENTS : ASHVINI KUMAR, DIVYA NISHANI P. L, GANGADHARA NAIK R and MAMATHA K. M

### **20. E-ACCESS CONTROL AND SURVEILLANCE OF VEHICLES**

- **GOVERNMENT ENGINEERING COLLEGE, HAVERI**

GUIDE : MR. HARISH H. M.

STUDENTS : MANOJ DESHPANDE, CHETANKUMAR K. M, NITESH HALAGI and SHIVANAND BIDIKAR

### **21. E-RATION MANAGEMENT SYSTEM**

- **SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR**

GUIDES : MRS. SEEMA B. HEGDE and MRS. S. MALA

STUDENTS : ASHOKAKUMARA M, DHANYAKUMAR M. H, PRADEEP KUMAR G and RAGHUNATH A.

## **INSTRUMENTATION TECHNOLOGY**

### **22. MULTI DEVICE CONTROL USING HEAD MOVEMENT FOR PHYSICALLY IMPAIRED, SPINAL CORD INJURED AND PARALYSED PATIENTS**

- **PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET**

GUIDE : MS. SHILPA MEHTA

STUDENTS : AKSHATHA B, YAMINI S, M. THABASOOM and ANUSHA K. R

## **INFORMATION SCIENCE AND ENGINEERING**

### **23. GPS BASED NAVIGATOR USING ANDROID**

- **BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE**

GUIDE : SHEIK IMRAN AND PATIL N. S.

STUDENTS : GONCHIGARI APUROOPA, SNEHA H. R, SOWMYA G and LATHA P

## **BIOMEDICAL ENGINEERING**

### **24. HUMAN FALL DETECTION USING MEMS ACCELEROMETER**

- **BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE**

GUIDE : SHUBHA V. PATIL

STUDENTS : LAVANYA L, SIRISHA G. S and V. BHAVANA

## **CIVIL ENGINEERING**

### **25. STUDY ON LATERITE CEMENT BRICK**

- **KVG COLLEGE OF ENGINEERING, SULLIA**

GUIDE : MR. PRAMOD K and MR. KISHOR KUMAR B. R.

STUDENTS : BHARAT RAJ, RASHMITHA KOTIAN, VARSHITH A and ASHWATH N. G.

## BEST PROJECTS OF THE YEAR (Biofuel projects)

### B.E Project

#### MECHANICAL ENGINEERING

#### 26. UTILIZATION OF PONGAMIA POD SHELLS AND GLYCERINE WASTE FOR PRODUCTION OF FUEL BRIQUETTES

– H.M.S. INSTITUTE OF ENGINEERING, TUMKUR

GUIDE : MR.RAVICHANDRA.P.S

STUDENTS : NAVEEN S, NISHANTH B. M, SHIVAKUMAR R and YUVARAJ H. S.

#### 27. DESIGN AND FABRICATION OF PONGAMIA DECORTICATOR AND OPTIMIZATION OF BIO-DIESEL PRODUCTION VIA ALKALI CATALYZED METHANOLYSIS USING OIL EXTRACTED FROM DECORTICATED SEEDS OF *PONGAMIA PINNATA*

– SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

GUIDES : DR. G. PANDURANGA MURTHY and VASUDEVA MURTHY

STUDENTS : SANMATHI K, SANGEETHA M, HARSHITH S, KIRAN K and MEDA KARAN VENKATESH

### M.Tech., Project

#### ENVIRONMENTAL ENGINEERING

#### 28. BIOMETHANATION OF EFFLUENT FROM DESICCATED COCONUT INDUSTRY

– BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

GUIDES : DR. S. MANJAPPA & DR. H. B. ARAVINDA

STUDENT : VINAYAK BANAKAR

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ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELGAUM

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**BEST PERFORMING COLLEGE AWARD: 2012-13: 36<sup>TH</sup> SERIES OF SPP**

**B. V. BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI**

**BEST PROJECTS OF THE YEAR (Seminar projects)**

## **ENVIRONMENTAL ENGINEERING**

### **29. PERFORMANCE EVALUATION OF TWO BATCH OPERATIONS USING SEQUENTIAL BATCH REACTOR AND ELECTRO COAGULATION IN TREATING COFFEE WASTE WATER**

COLLEGE : ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALUR

GUIDES : MR. SRIKANTHA H and MS. SOWMYA M. S.

STUDENTS : AASHITH LOREN LOBO, DEEPIKA B U and SHARAYU UMESH KARKERA

## **CIVIL ENGINEERING**

### **30. AN INNOVATIVE STEP TOWARDS THE DEVELOPMENT OF FLOATING CONCRETE**

COLLEGE : B. M. S. COLLEGE OF ENGINEERING, BANGALORE

GUIDE : DR. S. GIRISH

STUDENTS : P. RAJESHWARI, SHRUTHI R IYER, VARUN B.P and VIJAY SAI K.

### **31. TARGETING AND EVALUATING GROUND WATER RESERVES IN HARDROCK TERRAINS USING INTEGRATED GEOSPATIAL MAPPING FOR SUSTAINABLE DEVELOPMENT**

COLLEGE : N.M.A.M. INSTITUTE OF TECHNOLOGY, NITTE

GUIDE : RADHAKRISHNAN K

STUDENTS : ROOPA, SATHVIKA T. SHETTY, THANUSHREE A. HEGDE and SUMITH KUMAR

### **32. STUDY ON INNOVATIVE APPLICATIONS IN BACTERIAL CONCRETE**

COLLEGE : R V COLLEGE OF ENGINEERING, BANGALORE

GUIDE : DR. RADHAKRISHNA

STUDENT : MATHEW JOE, ANIRUDH K A and SACHIN MARUTHI

## **COMPUTER SCIENCE AND ENGINEERING**

### **33. CROSS REFERENTIAL EVALUATION USING TOKEN BASED AUTHENTICATION SYSTEM FOR SIM CARD ACTIVATION**

COLLEGE : SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

GUIDE : SRIKANTH T. N.

STUDENTS : MADHURI GANGADHARA, MANASA D. R, BHARATH G. L and CHARAN S. N.

## **INFORMATION SCIENCE AND ENGINEERING**

### **34. KMF AUTOMATION - PROVIDING AUTOMATION TO MILK FEDERATION**

COLLEGE : SMT. KAMALA AND SHRI VENKAPPA M AGADI COLLEGE OF ENGINEERING AND TECHNOLOGY, LAXMESHWAR, GADAG

GUIDE : MR.PUNEETH N THOTAD

STUDENTS : RAJESH B M, SANKAMMA N M, WASIM S S and SAGAR A B

### **35. STAGANDROID - AN ANDROID APPLICATION ON STEGANOGRAPHY**

COLLEGE : RAJA RAJESWARI COLLEGE OF ENGINEERING, BANGALORE

GUIDE : Mr. NANDISH U G

STUDENTS : ANANTHAKUMAR B M, PREM VIKAS V, ADITYA R and SUHAS K A

## **ELECTRONICS AND COMMUNICATION**

### **36. OPTIMAL DESIGN AND CHARACTERIZATION OF OPTICAL ANTENNA FOR SPECTROSCOPY**

COLLEGE : MALNAD COLLEGE OF ENGINEERING, HASSAN

GUIDE : PROF B R SUJATHA

STUDENTS : ADARSH B VASISTA, SHASHIKIRAN SHETTY K, SURABHI K R and APARNA H R

## **ELECTRICAL AND ELECTRONICS**

### **37. GENERATION OF ELECTRICITY USING BIO GAS AS A FUEL GENERATOR**

COLLEGE : ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR

GUIDE : MR T SRINIVAS

STUDENTS : MR SANTOSH T V, MR ANIRUDDA SWAMY H M, MS ARPITHA G J and MS BANDHAVYA C

## **MECHANICAL ENGINEERING**

### **38. DUAL CYLINDER AIR COMPRESSED CAR**

COLLEGE : SHIRDI SAI ENGINEERING COLLEGE, BANGALORE

GUIDE : MR. MAHESH S

STUDENT : USMAN AHAMED F, RAKSHAT KUMAR V, PRAJWAL J and VINAY PRASAD A

### **39. MECHANISATION OF SPIRULINA PRODUCTION AND INTEGRATING THE LOCAL TECHNOLOGY TO IMPROVE THE PRODUCTION**

COLLEGE : H.M.S INSTITUTE OF TECHNOLOGY, TUMKUR

GUIDE : DR. VIJAYA VITTALA

STUDENTS : MR. BHARATH KUMAR K.A and MR. SRINIDHI KATTIMANI

## **CHEMICAL ENGINEERING**

### **40. AN EFFICIENT PROTOCOL FOR THE SYNTHESIS OF N<sup>α</sup> PROTECTED β-AMINO ALCOHOLS AND PEPTIDYL ALCOHOLS BY EMPLOYING EDC/HBTU**

COLLEGE : SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

GUIDE : DR .K L SHIVABASAPPA and DR. H. S. LALITHAMBA

STUDENTS : MR. ASHWIN M K, MS. RACHANA PRASAD, MR. RAHUL PRASAD and MR. RITWIK KAR

## **POLYMER SCIENCE AND TECHNOLOGY**

### **41. INVESTIGATION ON OPTOELECTRICAL BEHAVIOURS OF CONDUCTING POLYMER COATED LITHIUM ZIRCONIUM OXIDE NANO STRUCTURED FILLER LOADED POLYVINYL ALCOHOL NANO COMPOSITES FOR SOLAR CELL APPLICATIONS**

COLLEGE : SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING, MYSORE

GUIDE : DR. SIDDARAMAIAH

STUDENTS : M.U. AASHIK, K.S. MOHAN and M.J. SANDEEP KUMAR

KSCST : SPP : 40th Series : Best Project of the year Details – 35th to 39th Series of SPP

## **BEST PROJECTS OF THE YEAR (Exhibition projects)**

### **COMPUTER SCIENCE AND ENGINEERING**

#### **42. DESIGN OF AUTOMATED CHANGE MACHINE (ACM) - A SOLUTION FOR DAY TO DAY LIFE**

COLLEGE : SRINIVAS INSTITUTE OF TECHNOLOGY, VALACHIL, MANGALORE

GUIDE : MR. RAMAKRISHNA B. B.

STUDENTS : MR.SACHIN PAI, MR. ASHWIN M. V and MR. VINEETH KUMAR V.

### **INFORMATION SCIENCE ENGINEERING**

#### **43. REQUISITE TRUST-BASED SECURE ROUTING PROTOCOL FOR MANETS**

COLLEGE : BHEEMANNA KHANDRE INSTITUTE OF TECHNOLOGY, BHALKI, BIDAR

GUIDE : PROF. SHIVAKUMAR ANADUR

STUDENTS : POOJA BHALKE, POORNIMA METRI, GEETA CHANNAVEERE and SHEDOLE SNEHA

### **CONSTRUCTION TECHNOLOGY AND MANAGEMENT**

#### **44. EDUCATION OF COMPOSITE POLYETHYLENE KERB - AN EXODUS FROM THE USUAL**

COLLEGE : DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE

GUIDE : MR. M.K. HARIKEERTHAN

STUDENTS : ANANTH S BAGI, ANIKET RAJ, PREETHI and PRIYALI L SEQUEIRA

### **BIOMEDICAL ENGINEERING**

#### **45. AN IN-VEHICLE DRIVER FATIGUE DETECTION AND ALARM SYSTEM**

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE

GUIDES : MR. ANJANAYA L.H and MRS.SHUBHA V PATEL

STUDENTS : KEERTHISHREE B.M, MADHAVI M DEVAN, NAVEEN KUMAR S M and VISHAL KOTEMANE

### **ELECTRICAL AND ELECTRONICS**

#### **46. AXIAL FLUX INNER PERMANENT MAGNET MOTOR**

COLLEGE : ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELGAUM

GUIDE : Prof. VINAY PATTANASHETTI

STUDENTS : ANITHA GUMAJI, DHANASHRI PATIL, MALLESH C G and SUSHMA N H

### **ELECTRONICS AND COMMUNICATION**

#### **47. AUTOMATIC FOOD DISPENSING AND SENSING MACHINE FOR PETS**

COLLEGE : ACHARYA INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : MRS. RAJESWARI

STUDENTS : GAURAV R and DEEPAK J.

#### **48. AUTOMATIC DETECTION OF EMERGENCY VEHICLES STUCK IN A TRAFFIC JAM**

COLLEGE : DON BOSCO INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : MRS. KAVITHA T. M.

STUDENTS : SANDEEP K V, J R VINAYAK, KISHORE ATANUR and PRABHUDEVARU K M

#### **49. CAMPUS RADIO**

COLLEGE : K.L.E. DR. M.S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM

GUIDE : PROF. SONAM KANDALGOANKAR

STUDENTS : SHREEDHAR GUMASTE, SUMAN CHALAWADI, SURAJ CHINCHOLIMATH and VAMAN KALKUNDRIKAR



#### **50. LOW COST PORTABLE MUSICAL FOUNTAIN**

COLLEGE : MARATHA MANDAL'S ENGINEERING COLLEGE, BELGAUM

GUIDE : Prof. B.B.TIGADI

STUDENTS : MR.PRASHANT CHITTI, MS.PRIYANKA HOMKAR, MR. RAMADAS KUMBHAR and MR.RIGVEDA DESHPANDE

#### **51. GAIT PREDICTION OF PROSTHETIC LEG SYNCHRONISED TO THE FUNCTIONAL LEG OF THE AMPUTEE**

COLLEGE : B.M.S INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDES : SANEESH CLEATUS THUNDIYIL and RAGHAVENDRA.S

STUDENTS : HARSHITHA PARNANDI VENKATA, MADHURI T.M, MODINI S and SNEHA DAS

### **MECHANICAL ENGINEERING**

#### **52. DESIGN AND FABRICATION OF SOLAR POWERED TRI-CYCLE**

COLLEGE : B.V.BHOOMARADDI COLLEGE OF ENGINEERING &TECHNOLOGY, HUBLI

GUIDE : MR. MAHESH B. GORAWAR

STUDENTS : VIKAS.M.SAKHARE, PUNIT.R.K, RAGHAVENDRA.R and ANAND

#### **53. CYCLE SWEEPER**

COLLEGE : MARATHA MANDAL ENGINEERING COLLEGE, BELGAUM

GUIDE : PROF. R. C. SHELEPPAGOAL

STUDENTS : MR.PRAYAG R.SHIROLKAR, MR.SWAPNIL S.DESAI, MR.MANDAR R.MUCHANDI and MR.PRASANNA P.DESAI

#### **54. STUDY AND DESIGN OF DOMESTIC GAS BURNER AND MODIFICATION OF GAS STOVE**

COLLEGE : ST. JOSEPH ENGINEERING COLLEGE, MANGALORE

GUIDE : MR. PRATHVIRAJ H

STUDENTS : SHREEKANTH N R, BHARATHESHA A B, SHARATH KUMAR K and ABHIJITH H

#### **55. DESIGN AND FABRICATION OF RICE HUSK GAS STOVE**

COLLEGE : K.S INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : MR. K PRASAD

STUDENTS : PREJIR, NISHCHAY KADUR, S N NARESH and PRASHANTH PETER

### **INDUSTRIAL PRODUCTION**

#### **56. DESIGN AND FABRICATION OF UNIVERSAL WEED REMOVAL EQUIPMENT**

COLLEGE : B.V.BHOOMARADDI COLLEGE OF ENGINEERING &TECHNOLOGY, HUBLI

GUIDE : PROF. J. SATISH

STUDENTS : KARTIK THAKKAR, AKSHIT JAIN, AJEET TASAGANVE and GOPAL KALBURGI

#### **57. DESIGN AND FABRICATE A MACHINE THAT CAN CONVERT DIFFICULT TO RECYCLE PLASTICS INTO CRUDE OIL**

COLLEGE : B.V.BHOOMARADDI COLLEGE OF ENGINEERING &TECHNOLOGY, HUBLI

GUIDE : MADHUSUDHANA H K

STUDENTS : ASHISH S KABADI, KISHAN PATIL, ANKIT SHEKHAR and RAKESH PANDEY

## **BEST PROJECTS OF THE YEAR (Biofuel projects)**

### **B.E Project on Biofuels**

#### **BIOTECHNOLOGY**

##### **58. WASTE PALM SLUDGE OIL AS A RENEWABLE SOURCE OF BIODIESEL PRODUCTION**

COLLEGE : SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : Mr. RAJENDRA SINGH C

STUDENTS : Ms. VAISHNAVI A D and Ms. GANAPARTI SUJANA

#### **MECHANICAL**

##### **59. NEW CONCEPT DEVELOPMENT AND REDESIGN OF OIL EXPELLER FOR PONGAMIA SEEDS**

COLLEGE : R.V. COLLEGE OF ENGINEERING, BANGALORE

GUIDE : Prof. R CHANDRA KUMAR

STUDENTS : Mr. MANRUTH SHETTY S, Mr. DIVAKAR S M, Mr. ERROL BASIL TAURO and  
Mr. ARUNKUMARA H N

### **M.Sc., Project on Biofuels**

#### **MICROBIOLOGY**

##### **60. EFEFCT OF PONGAMIA CAKE ON BENEFICIAL SOIL MICROORGANISMS IN ARECA NUT PLANTATION**

COLLEGE : DAVANAGERE UNIVERSITY, DAVANAGERE

GUIDE : Dr. GAYATHRI DEVARAJA

STUDENTS : Ms. SHIVALI U JOLAD and Ms. GEETHA PRAKASH D

### **M.Tech., Projects on Biofuels**

#### **MECHANICAL ENGINEERING**

##### **61. STUDIES ON STABILITY OF DIESEL BIODIESEL AND BUTANOL BLENDS AND EVALUATION OF PERFORMANCE OF DIESEL ENGINE WITH SELECTED BLENDS**

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANAGERE

GUIDE : Mr. S RAJESH and Dr. S SHANMUKHAPPA

STUDENTS : Mr. SACHIN MURJAPURE

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## **BEST PERFORMING COLLEGE AWARD: 2013-14: 37<sup>TH</sup> SERIES OF SPP**

The Best Performing College Award goes to **DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE.**

## **BEST PROJECTS OF THE YEAR (Seminar projects)**

### **CIVIL ENGINEERING**

#### **62. “PERFORMANCE STUDY OF GEOPOLYMER COMPRESSED BLOCKS AND PRE-FABRICATED STRUCTURAL ELEMENTS”**

COLLEGE : JAIN COLLEGE OF ENGINEERING, BELGAUM  
GUIDE : KOMAL KATTIMANI  
STUDENTS : NITHIN KELAGERI, PATIL SHREYANSH, MOHAMMAD J. SHAIKH and SHIVPRASAD UCHUKAR

#### **63. “PERFORMANCE EVALUATION OF WASTE TYRE AND TUBE RUBBER AS A PARTIAL REPLACEMENT FOR FINE AND COARSE AGGREGATES IN CEMENT CONCRETE.”**

COLLEGE : SJB INSTITUTE OF TECHNOLOGY, BANGALORE  
GUIDE : DR NAGARAJ SITARAM  
STUDENTS : CHINMAY M N, HARIKRISHNA R, CHIRANTH V GOWDA and AKASH ADITYA

#### **64. “APPLICATIONS OF GEOPOLYMER IN BUILDING MATERIALS AND RETROFITTING”**

COLLEGE : BV BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI  
GUIDE : M. V. CHITAWADAGI  
STUDENTS : SANTOSH C. SATALI, KAVITHA S, BASAVARAJ M. M and SURESH B. MASANAGI

### **CONSTRUCTION TECHNOLOGY AND MANAGEMENT**

#### **65. “STABILIZATION OF BLACK COTTON SOIL USING FLY ASH AND GEOPOLYMER”**

COLLEGE : DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE  
GUIDE : PRAMOD K  
STUDENTS : RAGHAVENDRA S.R, GIRISHA Y.A, CHANDRU S THANGADAGI and SUHAIL AHMED

### **COMPUTER SCIENCE AND ENGINEERING**

#### **66. “A SECURE MONITORING OF 46 HABIT DRUGS USING ABE IN CLOUD”**

COLLEGE : CHANABASAVESHWARA INSTITUTE OF TECHNOLOGY, GUBBI, TUMKUR  
GUIDE : SHANTALA C.P  
STUDENTS : NITIN K R, RAVISH T M, SHARATH YADAV C and SANJAYA G PRAKASH

#### **67. “HARNESSING THE CLOUD FOR SECURELY OUTSOURCING LARGE SCALE SYSTEM OF LINEAR EQUATIONS”**

COLLEGE : K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE  
GUIDE : GOVINDARAJU G.N  
STUDENTS : DIVYA NAGARAJ, POOJA N and SREEVATHSA B.S

**68. “PORTABLE EMERGENCY APPLICATION KIT & DOCUMENT LOCKER WITH MULTI LEVEL SECURITY SYSTEM & SELF ERASE PROTOCOL”**

COLLEGE : PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, BELLARY  
GUIDE : LAKSHMI DURGA  
STUDENTS : K.SASHIKUMAR, RAJESH KUMAR GUPTA and NAGARAJA. N

**69. “PATHIPA DARSHINYAHA PAALANA (WOMAN PROTECTION MOBILE APP)”**

COLLEGE : SKSVMA COLLEGE OF ENGINEERING AND TECHNOLOGY, GADAG  
GUIDE : MANJULA DYAVANUR  
STUDENTS : SUPRIYA H.S, VIDYA ANNIGERI, SHRADDA PATIL and SHWETA PYATI

**INFORMATION SCIENCE AND ENGINEERING**

**70. “CONTROLLING AIR CONDITIONER (TEMPERATURE AND AIRFLOW) USING WIRELESS SENSOR NETWORK”**

COLLEGE : B V BHOOMARADDI COLLEGE OF ENGINEERING & TECHNOLOGY, HUBLI  
GUIDE : DR. MEENA S M  
STUDENTS : KARTHIK S K, MAHESHWARI M K and SURAJ M H

**ELECTRONICS AND COMMUNICATION**

**71. “DSP BASED CONVERTER-INVERTER CONTROL STRATEGY FOR SINGLE PHASE WIND POWER GENERATION SYSTEM”**

COLLEGE : JSS ACADEMY OF TECHNICAL EDUCATION, BANGALORE  
GUIDE : DR. B. G. SHIVALEELAVATHI AND H. S. KAVITHA  
STUDENTS : RAJATH P HEBBAR, PRAJWAL S N, SUDARSHAN RAJ KESHRI and SRIHARI G

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**72. “OPTIMIZATION IN GENERATION FROM A HORIZONTAL AXIS WIND TURBINE VIA BLADE PITCH CONTROL AND STRUCTURE MORPHING”**

COLLEGE : SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR  
GUIDE : DR. K.P.SHIVAMURTHY  
STUDENTS : JAINENDRA MISHRA, MAHENDRA SINGH SENWAR, SINDHU RAVINDRA B and SOURABH KUMAR

**MECHANICAL ENGINEERING**

**73. “STUDY OF HEAT TRANSFER THROUGH CIRCULAR DUCT WITH INSERTIONS (SPIRAL RIB INSERTIONS) AND DETERMINING THE LOCAL HEAT TRANSFER COEFFICIENT”**

COLLEGE : B.L.D.E.A'S V.P. DR. P.G.HALAKATTICOLLEGE OF ENGINEERING AND TECHNOLOGY, BIJAPUR  
BRANCH : MECHANICAL ENGINEERING  
GUIDE : V.V. NAGATHAN  
STUDENTS : SRINIDHI R PURANIK, DINESH B HOSAMANI, MANJUNATH R JAMKHANDI and HRISHIKESH S PATIL

**74. “SMART HIGHWAY INTEGRATED ENERGY PRODUCTION SYSTEM”**

COLLEGE : HMS INSTITUTE OF TECHNOLOGY, TUMKUR  
GUIDE : DR C B VIJAYA VITTALA  
STUDENTS : MD AMINUL HASSAN, SURENDRA SAPKOTA, MD ALAY MOHIUDDIN and SYED NEYAZ IMAM

## CHEMICAL ENGINEERING

### 75. "CHEMICAL RECYCLING OF WASTE PLASTICS INTO FUELS AND VALUABLE CHEMICALS"

COLLEGE : SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD  
GUIDE : SHIVANAND Y. ADAGANTI  
STUDENTS : MANJUNATH S, ANNAPURNESHWARI, V. PATIL, and ANIL .S. ANDEWADI

### 76. "ONE-POT SYNTHESIS OF FMOC/CBZ - PROTECTED B-AMINO ALKYL AZIDES DIRECTLY FROM ALCOHOLS AND THEIR UTILITY IN THE SYNTHESIS OF 1,4-SUBSTITUTED 1,2,3-TRIAZOLE BASED N- PROTECTED $\epsilon$ -AMINO ACIDS"

COLLEGE : SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR  
GUIDE : DR .THOMAS THEODORE AND DR. H. S. LALITHAMBA  
STUDENTS : DARSHAN M. K, DEBANJANI DAS, MAHENDRA N and NEHA B. S

## BIOTECHNOLOGY ENGINEERING

### 77. "SELECTION AND SCREENING OF MICROBIAL CONSORTIA FOR EFFICIENT AND ECO-FRIENDLY DEGRADATION OF PLASTIC WASTES IN URBAN AND RURAL AREAS OF BANGALORE"

COLLEGE : DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE  
GUIDE : SINOSH SKARIYACHAN  
STUDENTS : MEGHA M, MEGHNA N KINI, KAMATH MANALI MUKUND and ALYA RIZVI

### 78. "ISOLATION OF PLANT HORMONE (GA3) FROM FUNGI AND PRODUCTION AND OPTIMIZATION STUDIES"

COLLEGE : KLE DR M S SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM  
GUIDE : DR. UDAY M MUDDAPUR  
STUDENTS : MANOJ V GADKARI, SHRUTI M KULKARNI and PRIYANKA SABANNAVAR

## BEST PROJECTS OF THE YEAR (Exhibition projects)

## COMPUTER SCIENCE ENGINEERING

### 79. "A SECURE ATM SYSTEM USING DELAY CONSTRAINT AND GSM MODULE"

COLLEGE : CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, GUBBI  
GUIDE : SHANTHALA C.P  
STUDENTS : SUSHMITHA N, VAISHALI VAISHNAW, VANDANA K V and SHANTHALA.C P

### 80. "VISION BASED ANALYSIS USING SIXTH SENSE TECHNOLOGY"

COLLEGE : HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI, BELGAUM  
GUIDE : ARUNA A DAPTARDAR  
STUDENTS : VISHAL J KESTI, MRUTYUNJAY HIREMATH, PANKAJA SHAHAPURE and ASHWINI PATIL

## ELECTRICAL AND ELECTRONICS ENGINEERING

### 81. "ELECTRONIC LOAD CONTROLLER FOR MICRO HYDEL SYSTEMS"

COLLEGE : K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE  
GUIDE : DR.B.R.NATARAJAN  
STUDENTS : ABHISHEK. M, GANGADHAR.B.V, SUBRAMANIAN A.J and GIRISH KUMAR C.H

### 82. "ENERGY EFFICIENT SOLAR DISHWASHER"

COLLEGE : RAJARAJESWARI COLLEGE OF ENGINEERING, BANGALORE  
GUIDES : SINCY ELEZEBETH KURUVILLA and PAVAN KUMAR K.R  
STUDENTS : SANGEETHA J.S, SHASHI C.N and JNANADEEPTHI SEETHARAM

## ELECTRONICS AND COMMUNICATION ENGINEERING

### 83. “PLC BASED ADVANCE WATER DISTRIBUTION SYSTEM”

COLLEGE : CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, GUBBI  
GUIDE : DR. SURESH D S  
STUDENTS : SUDHAKAR K, DEEPAK N V, RAJESHWARI K M and SASHA S

### 84. “UNMANNED MOBILE PATROL VEHICLE FOR HOYSALA”

COLLEGE : M S RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE  
GUIDE : LAKSHMI S  
STUDENTS : PAWAN J S, MUKESH KUMAR SAINI, GULAM HUSSAIN and MUHAMMED SHAMIM

### 85. SMART WATER METER

COLLEGE : SCHOOL OF ENGINEERING AND TECHNOLOGY, JAIN GLOBAL CAMPUS, RAMANAGAR  
GUIDE : VINAY KUMAR S. B. and C. PRASANNA KUMAR  
STUDENTS : SACHIN JAIN B. N, SHARATH V.C and SUHAS S.

## ENVIRONMENTAL ENGINEERING

### 86. “FABRICATION OF ZINC OXIDE-CHITOSAN BASED PHOTOCATALYTIC REACTOR FOR DEGRADATION OF TEXTILE DYE CONGO RED”

COLLEGE : SAPTHAGIRI COLLEGE OF ENGINEERING, BAGALORE  
GUIDES : DR.CHAITANYALAKSHMI.G and MR. VIJAY KISHORE.  
STUDENTS : KUSHA SHARMA, SWATI KRISHNA and CHAITRA SHETTY

## BIOTECHNOLOGY ENGINEERING

### 87. “A NOVEL APPROACH IN UTILIZATION OF FLOWER WASTE FROM CHICKBALLAPUR MARKET TOWARDS DEVELOPMENT OF VALUE ADDED PRODUCTS”

COLLEGE : SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE  
GUIDES : PRIYA NARAYAN and SRINIVAS V BANDLAMORI  
STUDENTS : RIZWAN PASHA, ASHWINI MOHANDAS and REVATHI B R

## INFORMATION SCIENCE AND ENGINEERING

### 88. “MULTI-TOUCH REACTABLE”

COLLEGE : K.L.E INSTITUTE OF TECHNOLOGY, HUBLI  
GUIDE : GIRISH SAUNSHI  
STUDENTS : KESHAV M. KATWE, VINAY A. WALVEKAR, MAMATA KURABAGATTI and NUPUR TATTI

## MECHANICAL ENGINEERING

### 89. “EXOSKELETON FOR HUMAN PERFORMANCE AUGMENTATION”

COLLEGE : BV BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI  
GUIDE : MANTESH C CHOUKIMATH  
STUDENTS : ARUN BHAT, ANIL KAKHANDKI, ASHIFALI NADAF and NIKHIL SHERIGAR

### 90. “STUDY OF PARABOLIC TROUGH COLLECTOR FOR TAPPING SOLAR ENERGY”

COLLEGE : DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE  
GUIDE : NARASIMHE GOWDA  
STUDENTS : ABHIJEETH NAGARAJ, SUNIL KUMAR SHETTY,  
KIRAN KUMAR PH and SACHIN S JAMAKHANDI

### 91. “DRIVING ACCESSORY FOR HANDICAPPED”

COLLEGE : GOGTE INSTITUTE TECHNOLOGY, BELGAUM  
GUIDE : DR. S. L. GOMBI  
STUDENTS : KARAN JADHAV, ROHIT PATIL, KAUSTUBH KULKARNI and AJINKYA PITRE

### 92. "BEACH CLEANING EQUIPMENT"

COLLEGE : SHREE DEVI INSTITUTE OF TECHNOLOGY, MANGALORE  
GUIDE : CHANDANA N.C  
STUDENTS : SUDHARSHAN J, DARYL D'SOUZA, VINYAS A and VINESH

### 93. "SOLAR POWER ACTUATED DRIER"

COLLEGE : SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALORE  
GUIDE : UDAYASHANKAR B  
STUDENTS : CHANDAN A J, DEEPAK S, GAUTHAM B and NITESH

## INDUSTRIAL AND PRODUCTION ENGINEERING

### 94. "SMALL SCALE CHICKPEA HARVESTING"

COLLEGE : B.V.BHOOMARADDI COLLEGE OF ENGINEERING & TECHNOLOGY, HUBLI  
GUIDE : SANJAY KULKARNI  
STUDENTS : MOHAMED TAUSEEF, SARASWATI RAJPUROHIT,  
PRASHANT SALIMATH and ROHAN ARGEKAR

## BEST PROJECTS OF THE YEAR (Biofuel projects)

### B.E Project on Biofuels

## CHEMICAL ENGINEERING

### 95. "MANUFACTURE OF C-11 COMPOUNDS FROM CASTOR OIL"

COLLEGE : DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE  
GUIDE : PROF. SURESH C. MAIDARGI  
STUDENTS : B. R. KEERTHI, UJWALA K, SANTOSH H B and HARSHA

## MECHANICAL ENGINEERING

### 96. "STUDIES ON EFFECT OF BIODEISEL ON THE ENGINE CRANKCASE LUBRICANT"

COLLEGE : NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BANGALORE  
GUIDE : Dr. N. KAPILAN  
STUDENTS : BHAVYA SHREE M, CHAITRA K N and NETHRA M

### 97. "BIOMASS GASIFIER STOVE USING AGRICULTURAL WASTE (CROP RESIDUE)"

COLLEGE : SHAIKH COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM  
GUIDE : PROF. VEERANNA D. K  
STUDENTS : VIKAS A BHAVI, SATISH G. KALAKERI, SADANAND I. KAMMAR and  
SHRISHAIL M. NARAGATTI

## BIOTECHNOLOGY ENGINEERING

### 98. "PRODUCTION OF BIOFUEL FROM SOIL AND WASTE WATER ALGAE USING VERTICAL REACTOR SYSTEM"

COLLEGE : SAPTHAGIRI COLLEGE OF ENGINEERING, BANGALORE  
GUIDE : PROF. VINUTHA MOSES AND PROF. SOUMYA C  
STUDENTS : PRUTHVI AVADHANI H A and R VIDHYA

## M.Sc., Project on Biofuels

### BIOTECHNOLOGY

#### 99. “HEAVY METAL INDUCTION FOR ENHANCED LIPID PRODUCTIVITY IN FRESH WATER MICROALGAE”

COLLEGE : INDIAN ACADEMY DEGREE COLLEGE, BANGALORE  
GUIDES : DR. SIBI G  
STUDENTS : ANURAAG T S, PRANAV KUMAR MISHRA and GEETA BAFLIA

#### 100. “NUTRITIONAL ANALYSIS OF PONGAMIA SEED CAKE FOR ANIMAL SUPPLEMENT”

COLLEGE : MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN, BANGALORE  
GUIDES : MRS. BABITHA B AND DR. SAVITHA G  
STUDENTS : RABIA ZAIB, PUSHPALATHA M, ARPITHA JADE and AMRUTHA P

## M.Tech., Projects on Biofuels

### THERMAL POWER ENGINEERING

#### 101. “INVESTIGATION ON CONVERSION OF FLOWER WASTES INTO BIO-ETHANOL AND PERFORMANCE EVALUATION ON SINGLE CYLINDER IC ENGINE”

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE  
GUIDES : DR. S KUMARAPPA AND DR. B M KULKARNI  
STUDENTS : VEERABHADRAPPA C BALIKAI

#### 102. “STABILITY ANALYSIS OF BIODIESEL, ETHANOL AND DIESEL BLENDS AND PERFORMANCE TESTING OF CI ENGINE WITH THESE STABLE BLENDS”

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE  
GUIDES : MR. S RAJESH  
STUDENTS : VICKY SINGHA



# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560 012

**List of projects selected for “PROJECT OF THE YEAR” award  
during the Seminar and Exhibition of Student Projects – 38<sup>th</sup> SERIES: 2014-15  
held on 20<sup>th</sup> and 21<sup>st</sup> August 2015 at  
SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU**

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

## **BEST PERFORMING COLLEGE AWARD : 2014-15 : 38<sup>TH</sup> SERIES OF SPP**

**NMAM INSTITUTE OF TECHNOLOGY, NITTE, KARKALA.**

## **BEST PROJECTS OF THE YEAR (Seminar projects)**

### **MECHANICAL ENGINEERING**

#### **103. EXPERIMENTAL INVESTIGATION TO STUDY THE PERFORMANCE AND EMISSION CHARACTERISTICS OF A DTSI ENGINE USING ETHANOL-GASOLINE FUEL BLEND**

- K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU

BRANCH : MECHANICAL ENGINEERING

GUIDE : ASST. PROF. PRASHANTH J.

STUDENTS : MR. MANJUNATHA H.R., MR. RAJESH T.S and MR. VINAY H.K

### **AERONAUTICAL ENGINEERING**

#### **104. DESIGN ANALYSIS AND FABRICATION OF AN UAV FOR AGRICULTURAL APPLICATIONS**

- NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU

BRANCH : AERONAUTICAL ENGINEERING

GUIDE : MR. MAHENDRA M A

STUDENTS : MR. ROOPESH A, MR. CHETHAN M, MR. SANTHOSH D and MR. ABHILASH U SHETTY

### **BIOTECHNOLOGY**

#### **105. GREEN SYNTHESIS OF SILVER NANOPARTICLES USING ROOT EXTRACT OF DECALEPIS HAMILTONII AND ITS CANCER CELLS INHIBITION STUDIES**

- MS RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU

BRANCH : BIOTECHNOLOGY ENGINEERING

GUIDES : MRS. BHAVYA S.G. and DR. K. N. CHIDAMBARA MURTHY

STUDENTS : MS. KEERTHI V R

### **CHEMICAL ENGINEERING**

#### **106. SYNTHESIS & CHARACTERIZATION OF IRON OXIDE NANOPARTICLES AND THEIR APPLICATION IN THE TREATMENT OF INDUSTRIAL WASTEWATER**

- SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD

BRANCH : CHEMICAL ENGINEERING

GUIDE : DR. SREEKANTH. B

STUDENTS : MR. CHAITANYA PURANIK., MS. AMRUTA BHUSANUR and MS. RAJESHWARI DESAI

## **CIVIL ENGINEERING (STRUCTURES)**

### **107. DESIGN AND PERFORMANCE EVALUATION OF RAP (RECYCLED ASPHALT PAVEMENT) USING WARM MIX ASPHALT MIX**

- BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT

BRANCH : DEPARTMENT OF CIVIL ENGINEERING

GUIDE : MR. SRINIVAS. F. CHITRAGAR

STUDENTS : MS. SOUMYA Y, MR. REDDY MANOHAR, MR. TALEK GAPAK and MR. BASALINGAYYA K.

### **108. MANUFACTURE OF GREEN SCC-A STEP TOWARDS DEVELOPMENT OF SUSTAINABLE CONCRETE USING SLAG AS A FILLER AND FINE AGGREGATE**

- BMS COLLEGE OF ENGINEERING, BASAVANAGUDI, BENGALURU

BRANCH : CIVIL ENGINEERING

GUIDE : DR. S. GIRISH

STUDENTS : MR. P.S KARTHIK, MS. ASHWINI S SHETTYP and MR. NAGIREDDY M

## **CIVIL ENGINEERING (NATURAL RESOURCES)**

### **109. AN EXPERIMENTAL INVESTIGATION ON EVALUATION OF KINETIC PARAMETERS COEFFICIENTS FOR THE TREATMENT OF DISTILLERY WASTE USING ACTIVATED SLUDGE PROCESS**

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

BRANCH : CIVIL ENGINEERING

GUIDES : DR. G. P. DESAI and DR. SURESH B,

STUDENTS : MS. MANASA KAKANUR R J

### **110. FEASIBILITY STUDY AND PROTOTYPE DESIGN FOR BIOGAS PRODUCTION IN AN ENGINEERING COLLEGE FROM CANTEEN FOOD WASTE**

- SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALORE

BRANCH : CIVIL ENGINEERING

GUIDES : DR.GAUTHAMJEPPU and MS. RASHMISHREE K N

STUDENTS : MR. SHELTON RAINER PINTO, MR. ABHITH G., MS. RENITHA G. DSOUZA and MS. SHRIKALPA P

## **INFORMATION SCIENCE ENGINEERING**

### **111. REAL TIME ANNOTATION OF MEDICAL IMAGES**

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

BRANCH : INFORMATION SCIENCE & ENGG

GUIDE : MRS. SHARMILA S. P.

STUDENTS : MS. NAVYA A., MS. NANDINI C., MS. NAGILA S., MR. NAVEEN KUMAR B E

## **ELECTRICAL AND ELECTRONICS**

### **112. UNIPOLAR SPWM BASED REACTIVE POWER COMPENSATOR**

- NMAM INSTITUTE OF TECHNOLOGY, NITTE, KARKALA

BRANCH : ELECTRICAL & ELECTRONICS ENGG

GUIDE : DR. NAGESH PRABHU

STUDENTS : MR. NISHANTH, MR. SOURABH ARAVIND RAO, Ms. APOORVA SHETTY and Ms. MADHUMITA PODDAR

## **ELECTRONICS AND COMMUNICATION**

### **113. NEURAL NETWORK BASED AUTOMATED SYSTEM FOR THE DIAGNOSIS OF CERVICAL CANCER**

- BMS INSTITUTE OF TECHNOLOGY AND MANGEMENT, YELAHANKA, BENGALURU

BRANCH : ELECTRONICS & COMM. ENGG

GUIDE : MRS. SEEMA SINGH

STUDENTS : MR. AMIT MUTGI, MS. RISHYA. P. MURTHY, MS. TEJASWINI V

## **BEST PROJECTS OF THE YEAR (Exhibition projects)**

## **BIOTECHNOLOGY ENGINEERING**

### **114. DEVELOPMENT OF ECO FRIENDLY MOSQUITO REPELLENTS**

- RV COLLEGE OF ENGINEERING, BENGALURU

BRANCH : BIOTECHNOLOGY ENGINEERING

GUIDE : DR. ASHWANI SHARMA AND DR. NAGASHREE N RAO

STUDENTS : MR. KARTHIK V., MR. BHARATHS, MR. SAURAV KUMAR SINGH

## **ELECTRICAL AND ELECTRONICS ENGINEERING**

### **115. REMOTE CONTROLLED ARECANUT TREE CLIMBING MACHINE**

- CANARA ENGINEERING COLLEGE, BANTWAL TQ, DAKSHINA KANNADA

BRANCH : ELECTRICAL & ELECTRONICS ENGG

GUIDE : MR H RAGHUVVEERA

STUDENTS : MR. CHANDRAKANTH SHENOY K., MR. LOYAL RAYAN, MR. MANOJ KUMAR AND MR. ARPITH

### **116. HIGH ALTITUDE WIND ENERGY USING KITE-A REVOLUTION IN RENEWABLE ENERGY**

- SRINIVAS INSTITUTE OF TECHNOLOGY, VALACHIL, MANGALORE

BRANCH : ELECTRICAL & ELECTRONICS ENGG

GUIDE : PROF. LOKESH B

STUDENTS : MR. ROYSTAN VIJAY CASTELINO, MR. KESHARSHRESTHA MS. NISHALMASCARENHAS, MS. KHONGDUPRIDIAN

## **MECHATRONICS ENGINEERING**

### **117. "POWER GENERATION FROM EXHAUST GAS AND ENGINE HEAT"**

- ACHARYA INSTITUTE OF TECHNOLOGY, SOLADEVANAHALLI, BENGALURU

BRANCH : MECHATRONICS ENGINEERING

GUIDE : DR.A.R.K. SWAMY

STUDENTS : MR. KARTHIK K. A., MR. M. NIKHIL

## **MECHANICAL ENGINEERING**

### **118. ARECANUT BUNCH BEATER**

- GM INSTITUTE OF TECHNOLOGY, DAVANGERE

BRANCH : MECHANICAL ENGINEERING

GUIDE : DR. MURUGESH M C

STUDENTS : MR. SAGAR K R., MR. SACHIN S S., MR. SUNIL KAMMAR, MR. ASHIK K C

### **119. DESIGN AND FABRICATION OF INTERNAL PIPE DEFECTS DETECTOR**

- KLE'S DR. M. S. SHESHAGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, UDYAMBAG, BELAGAVI

BRANCH : MECHANICAL ENGINEERING

GUIDE : PROF. RAMESH KATTI

STUDENTS : MR. NAVNEET PATNEKAR, MR. ADITYA NETALKAR, MR. NIKHIL PATIL MR. OMKAR KABBE

**120. INTER ROW CULTIVATOR FOR HORTICULTURE FIELDS**

- KLS GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAVI

BRANCH : MECHANICAL ENGINEERING

GUIDE : DR. S.L.GOMBI

STUDENTS : MR. CHETHAN SHASTRY, MR. HANAMANT MAHADEV MASALI  
MR. ASHPAQ INAMDAR, MR. RAHUL MADAN HARPALE

**121. DESIGN AND MANUFACTURING OF LOW-COST PROTOTYPE CNC MILLING MACHINE FOR MASS PRODUCTION ORIENTED SMALL SCALE INDUSTRY**

- NANDI INSTITUTE OF TECHNOLOGY AND MANAGEMENT SCIENCES, BENGALURU

BRANCH : MECHANICAL ENGINEERING

GUIDE : ASST. PROF. VIKRAM KUMAR S. JAIN

STUDENTS : MS. BHUVANESHWAREE B., MR. CHANNABASAVA, MR. ISHWAR

**122. DEVELOPMENT AND TESTING OF SEMI-AUTOMATIC COMMODE CLEANER**

- SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

BRANCH : MECHANICAL ENGINEERING

GUIDE : DR. A.J.K. PRASAD

STUDENTS : MR. NAGARJUNA P., MR. NOHAN K., MR. SANDEEP KUMAR R.R. and MR. VISHAL M

**INDUSTRIAL AND PRODUCTION ENGINEERING**

**123. MULTIPURPOSE FARM ROBOT**

- BV BHOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI

BRANCH : INDUSTRIAL & PRODUCTION ENGG

GUIDE : MR. B B KOTTURSHETTAR

STUDENTS : MS. SUSHMA B, MS. SUPRITA K., MS. SAHANA SHIVANGI and MS. SANCHAYAN ROY

**ELECTRONICS AND COMMUNICATION**

**124. INTELLIGENT HELMET FOR ROAD SAFETY**

- DR. MV SHETTY INSTITUTE OF TECHNOLOGY, MOOBBIDRI

BRANCH : ELECTRONICS AND COMM. ENGG

GUIDE : MR. NAVEENA G PAI

STUDENTS : MS.TINTU G THOMAS, MS. RAJASHREE, MS. MADHUSHREE K

**125. ONE TOUCH SMART SOIL EXAMINER TO ASSIST FARMER IN THE FIELD OF AGRICULTURE**

- SG BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAVI

BRANCH : ELECTRONICS AND COMM. ENGG

GUIDE : MR.SUNIL S. HARAKANNANAVAR

STUDENTS : MR. SACHINKUMAR A KULKARNI, MR. PRAVEEN M BYAKUDE  
MS. SHRUTI K MALVANKAR, MS. PREEYA M MUTALIK

**126. DESIGN AND IMPLEMENTATION OF BOREWELL RESCUE ROBOT USING LABVIEW**

- VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, MYSURU

BRANCH : ELECTRONICS AND COMM. ENGG

GUIDE : DR. BINDU A THOMAS

STUDENTS : MS. MANJARI M V., MS. MEGAHANA H.S., MR. VIJAY KUMAR M., MR. RAJESHA C

## COMPUTER SCIENCE AND ENGINEERING

### 127. A COLOR AND SIZE BASED INDIAN GRAPES VARIETY IDENTIFICATION AND QUALITY GRADING FROM IMAGES

- KLE INSTITUTE OF TECHNOLOGY, HUBLI

BRANCH : COMPUTER SCIENCE & ENGINEERING

GUIDE : ASST. PROF. MAHANTESH C. ELEMMI

STUDENTS : MS. MEGHA A., MS. SHRUTI SANKAPPAVAR, MS. SWATI GUDDAD, MS. VINDHYA B

## INFORMATION SCIENCE AND ENGINEERING

### 128. "E-TAILORING" WE GIVE FORMS TO YOUR DREAMS

- SKSVMA COLLEGE OF ENGINEERING AND TECHNOLOGY, LAXMESHWAR, GADAG

BRANCH : INFORMATION SCIENCE & ENGG

GUIDE : PROF. SHIVARAJ. HIEMATH

STUDENTS : MS. K ANUSHREE KINI, MS. PRIYA PAWAR, MS. SHWETA B., MS. AMRITA SATHURI

## BEST PROJECTS OF THE YEAR (Biofuel projects)

### B.E Project on Biofuels

### 129. OPTIMIZATION OF MICROALGAE GROWTH CONDITIONS TO ENHANCE THE YIELDS OF LIPID AND BIOMASS CONTENT USING ARTIFICIAL NEURAL NETWORK FOR COST-EFFECTIVE PRODUCTION OF BIODIESEL AND VALUE ADDED PRODUCTS

- NEW HORIZON COLLEGE OF ENGINEERING, MARATHAHALLI, BENGALURU

BRANCH : BIOTECHNOLOGY ENGINEERING

GUIDE : DR. UPENDRA R S and DR. PRATIMA KHANDELWAL

STUDENTS : MS. PRATIBHA K., MS. SMITHA K., MS. MOUNISHA R., MS. SRUJANA K N

### 130. ETHANOL PRODUCTION FROM PURE GLYCEROL USING BACILLUS CAREUS

- N.M.A.M. INSTITUTE OF TECHNOLOGY, NITTE

BRANCH : BIOTECHNOLOGY ENGINEERING

GUIDE : MR. VENKATESH KAMATH H.

STUDENTS : MS. SAMIYABANU, MS. KRUPA M.B., MR. DEEPAK G.M.

### 131. DESIGN AND FABRICATION OF AUTOMATED CLEANING MACHINE FOR PONGAMIA SEEDS

- SRI JAGADGURU MURUGARAJENDRA INSTITUTE OF TECH., CHITRADURGA

BRANCH : MECHANICAL ENGINEERING

GUIDE : PROF. SRIDHAR

STUDENTS : MR. MOHAMMED NISAR AHAMED, MR. RAHUL G M., MR. MOHAMMED SUHEEL  
MR. SUSHANT KUMAR

### 132. PRODUCTION AND OPTIMIZATION OF DAIRY SCUM BIO-DIESEL USING R.S.M. AND TESTING THE PERFORMANCE ON C.I. ENGINES

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

BRANCH : MECHANICAL ENGINEERING

GUIDE : MR. ARUN S B

STUDENTS : MR. SIDDALING, MR. VEERESH, MR. BALBIR SINGH, MR. YOGESH SURYAVANSHI

## **M.Sc., Project on Biofuels**

### **133. PRODUCTION OF EXTRACELLULAR LIPASE FROM AZADIRACHTA INDICA SEED CAKE USING SOLID STATE FERMENTATION**

- MAHARANI LAXSHMI AMMANI COLLEGE FOR WOMEN, BENGALURU

BRANCH : BIOCHEMISTRY & BIOTECHNOLOGY

GUIDES : DR. SUNEETHA P

STUDENTS : MS. AFSHANIZZATH MAB, MS. RACHANA D.B., MS. SHARANYA B., MS. ROOPA R

### **134. BICARBONATE BASED MICROALGAL CARBON SEQUESTRATION FOR HIGHER BIOMASS AND LIPID PRODUCTION IN CHLORELLA SPECIES**

- INDIAN ACADEMY DEGREE COLLEGE, BENGALURU

BRANCH : BIOTECHNOLOGY

GUIDES : DR. SIBI G AND DR. B.M. DEEPA

STUDENTS : MS. VISHAKA SHETTY, MS. KEYURI MOKASHI

## **M.Tech., Projects on Biofuels**

### **135. ENHANCEMENT OF BIOBUTANOL PRODUCTION FROM WHEAT STRAW USING FBB (FIBROUS BED BIOREACTOR)**

- M S RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU

BRANCH : BIOTECHNOLOGY ENGINEERING

GUIDES : MR. GOKULAKRISHNAN M

STUDENTS : MR. RAVISHANKAR SHIVANAND NILEGAR

# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560 012

List of projects selected for “PROJECT OF THE YEAR” award  
during the Seminar and Exhibition of Student Projects – 39<sup>th</sup> SERIES: 2015-16  
held on 19<sup>th</sup> and 20<sup>th</sup> August 2016 at

BLDEA’s Vachana Pitamaha Dr. P. G. Halakatti College of Engineering & Technology, Vijayapura

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

## **BEST PERFORMING COLLEGE AWARD : 2015-16 : 39<sup>TH</sup> SERIES OF SPP**

**VSM INSTITUTE OF TECHNOLOGY, NIPANI, BELAGAVI**

### **BEST PROJECTS OF THE YEAR (Seminar projects)**

#### **MECHANICAL ENGINEERING**

##### **136. BIO-DESIGN AND FABRICATION OF BIO-COMPOSITE HELMET**

- ACS COLLEGE OF ENGINEERING, BENGALURU  
GUIDE : MR. SUNIL RAJ B.A  
STUDENTS : MR. BHARATH B., MR. CHETHAN KUMAR G., MR. SHIVANNA G and  
MR.SYED SAJJAD HUSSAIN

##### **137. MECHANICAL BEHAVIOUR OF WOOD PLASTIC COMPOSITES**

- BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS), BAGALKOT  
GUIDE : MR. H. M. KADLIMATTI  
STUDENTS : MS. KRUTIKA NAGADA, MR. AMIT DESAI, MR. MALLIKARJUN V M and  
MR. LOHIT RATHOD

##### **138. HEAT TRANSFER STUDY OF SYNTHETIC AIR JET FOR EFFECTIVE COOLING**

- **KLS'S** VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECHNOLOGY, HALIYAL  
GUIDE : MR. NAVEEN C S  
STUDENTS : MR. PRAJWAL DODDAMANI, MR. VINAYAK B., MR. RAJANI HIREMATH and  
MR. SANTOSH JADHAV

##### **139. EXPERIMENTAL STUDIES ON CUTTING PARAMETERS DURING DRILLING OPERATION OF MILD STEEL USING ECO FRIENDLY VEGETABLE OIL AS CUTTING FLUID**

- K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU  
GUIDE : DR.JYOTHI.PN  
STUDENTS : MS. M.SUSMITHA and MR.SHARAN P

#### **BIOTECHNOLOGY**

##### **140. EXTRACTION AND SCREENING OF GLUCANSUCRASE (GLUCOSYLTRANSFERASE) SPECIFIC INHIBITOR FROM PLANT SOURCE TO PREVENT DENTAL CARIES**

- SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE  
GUIDE : MS. PRIYA NARAYAN  
STUDENTS : MR. SRINIDHI UPENDRA BHUJANG

## ENVIRONMENTAL ENGINEERING

### 141. STUDIES ON NATURAL FIBROUS MATERIALS AS FIXED AERATED BEDS FOR DOMESTIC WASTEWATER TREATMENT

- ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKAMAGALUR  
GUIDE : MRS. SHRUTHI C G  
STUDENTS : MS. MONIKA K., MS. ERISA SHILLA, MS. SEEMA M DODDAMANI and  
MR. ADITYA RAM PN

## CIVIL ENGINEERING (STRUCTURES)

### 142. BIOREMEDIATION OF HEAVY METALS CONTAMINATED SOIL USING COMPOST (ORGANIC AMENDMENTS)

- BMS COLLEGE OF ENGINEERING, BASAVANAGUDI, BENGALURU  
GUIDES : MRS. PRATHIMA B  
DR. SAVITHRI BHAT  
STUDENTS : MS. KHUSHBU K. BIRAWAT

### 143. SEDIMENT MOVEMENT ALONG HARWADA BEACH, UTTAR KANNTA , WEST COAST OF INDIA

- KLS'S VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECHNOLOGY, HALIYAL  
GUIDE : MR. SAGAR WAGHMARE  
STUDENTS : MR. VIJAYANAND LOHAR, MS. SHRUTIKA GODKHINADI, MS. SOUBHAGYA KORLUR  
and MR. JYOTI JAIN

## CIVIL ENGINEERING (NATURAL RESOURCES)

### 144. DELINEATION OF WATERSHED AND ESTIMATION OF DISCHARGE OF RIVER SHIMSHA

- CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, GUBBI, TUMKUR  
GUIDE : MR.MANJUNATHA M KATTI  
STUDENTS : MR. BHARATH H S., MR. DARSHAN KH, MR. PAVAN S  
MS.SPOORTHY SADESHIV SHANBHOG

### 145. OPTIMIZATION OF FOOD-WASTE BASED BIOGAS DIGESTOR AND ITS IMPLEMENTATION IN RURAL AREAS

- SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALORE  
GUIDE : MR. PRASANNA KUMAR.C  
MS. RASHMISHREE K N  
STUDENTS : MR. BLESSON S., MR. NIRMITH ASHOK BANGERA, MR. KOUSHIK M  
and MR. ARTHIK RAI

## COMPUTER SCIENCE AND ENGINEERING

### 146. "KRISHI RELAM" LET THE WAY GROW MORE!!!

- AGM RURAL COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI  
GUIDE : MR. RAGHAVENDRA HAVIN  
STUDENTS : MS. AKSHATA S KOTIYAVAR, MS. VIDYA M MISHRIKOTI and  
MS. ASHWINI S HANAMAKKANAVAR

## INFORMATION SCIENCE ENGINEERING

### 147. SIMPLE SMART CONNECTED CITY APP

- ACHARYA INSTITUTE OF TECHNOLOGY, SOLADEVANAHALLI, BENGALURU  
GUIDE : MR. SRINIVAS K  
STUDENTS : MR. JAY NARAYAN DAS, MR. LUNAGARIYA DIVYESH, MS. SHUBHA SHREE N  
and MR. SHUBHAM KUMAR



## **ELECTRONICS AND COMMUNICATION**

### **148. EXTRACTION AND ANALYSIS OF EEG SIGNALS FOR THE ADHD SYNDROME- A NOVEL APPROACH**

- SJB INSTITUTE OF TECHNOLOGY, BENGALURU  
GUIDE : DR. K. V. MAHENDRA PRASHANTH  
STUDENTS : MS. CHANDANA.S, MR. KARTHIK B BALARAJ, MS. SUSHMITHA POL and MS. USHA.P

## **BEST PROJECTS OF THE YEAR (Exhibition projects)**

## **MECHANICAL ENGINEERING**

### **149. DESIGN AND FABRICATION OF AUTOMATED MANUAL GEAR TRANSMISSION IN MOTOR BIKES**

- K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU  
GUIDE : MR.AKASHDEEP.B.N  
STUDENTS : MR. CHETHAN. J., MR DARSHAN NAIK, MS LAKSHMI KESARI and MR MAHANTHESH S

### **150. DEVELOPMENT OF SOIL LOOSENING EQUIPMENT FOR MEDIUM AND LARGE SIZED FIELDS OF SUGARCANE**

- JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU  
GUIDE : DR. B V RAGHAVENDRA  
STUDENTS : MR. SUMANTH S., MR. RAJESH RAGHAVAN B., MR. SHREYAS B R. and MR. MONISH CHAVAN R

### **151. NEW INSTRUMENTATION SYSTEM TO ENSURE COMPLIANCE OF RTO RULES BY FOUR WHEELER**

- GIRIJABAI SAIL INSTITUTE OF TECHNOLOGY, MAJALI, KARWAR  
GUIDE : DR. SURESH MANE  
STUDENTS : MR. ISMAIL SHAIKH, MR. NANDAN SHETGAONKAR, MR. CHINMAYE KENKRE and MR. DROBNEY PLYTON LEITAO

### **152. DEVELOPMENT OF PORTABLE FIRE EXTINGUISHER USING ACOUSTIC WAVES**

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE  
GUIDE : DR. SHARAN A S  
STUDENTS : MR. AKANKSH SARJI, MR. MOHAN RAM R K., MR. UTTUNGA

### **153. SMART CONVEYANCE FOR PHYSICALLY CHALLENGED PEOPLE**

- RR INSTITUTE OF TECHNOLOGY, CHIKKABANAVARA, BENGALURU  
GUIDE : DR. B.N. SATHYANARAYANA REDDY  
STUDENTS : MR. BHOOPENDRA R., MR. VENUGOPAL B.S., MR. VIVEK M. KARIGAR and MR. KIRAN R

### **154. PERFORMANCE EVALUATION OF PEDAL AND COMPRESSED AIR POWERED CENTRIFUGAL PUMP**

- VSM INSTITUTE OF TECHNOLOGY, NIPANI, BELAGAVI  
GUIDE : PROF. S B BIJALE  
STUDENTS : MR. SIDDALINGA K AINAPURE, MR. RAJU M HAWALDAR, MR. VINAYAK KADAM and MR. VITTAL N PUJERI

## CHEMICAL ENGINEERING

### 155. FILTRATION AND PURIFICATION OF WATER CONTAMINANTS SUCH AS HEAVY METALS AND DYES USING AGRICULTURE BASED BY-PRODUCTS FOR BIOSORPTION - A COMPREHENSIVE STUDY

- BMS COLLEGE OF ENGINEERING, BASAVANAGUDI, BENGALURU  
GUIDE : MRS. SHEETAL SINGH and DR. SAMITA MAITRA  
STUDENTS : MR. RAKSHIT P

## CIVIL ENGINEERING

### 156. WATSE PLASTIC PYROLYSIS

- BLDEA'S DR. PGH COLLEGE OF ENGINEERING AND TECHNOLOGY, BIJAPUR  
GUIDE : MS. ANURADHA. S. TANKSALI  
STUDENTS : MR. RUNAL DESAI, MR. SACHIN PAWAR, MR. HANAN AHMED and MR. BASAVARAJ BALKUNDE

## COMPUTER SCIENCE AND ENGINEERING

### 157. WSN BASED ADVANCED AGRICULTURALVEHICLE OPERATED USING SMART PHONE – AGRIBOT

- NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY, BENGALURU  
GUIDE : DR. PREMJIYOTI PATIL  
STUDENTS : MS. LAVANYA M., MS. NEHA SHARMA., MS. P SAISNIGDHA and MS. PAVITHRA SHETTY

### 158. RATION DISTRIBUTED SYSTEM USING SMART CARD

- JAIN COLLEGE OF ENGINEERING, BELAGAVI  
GUIDE : PROF. BHARATI CHILAD  
STUDENTS : MS. SANJANA MUTALIKDESAI, MS. SABARUHEE JAHAGIRDAR  
MS. ASHWINI JADHAV and MS. KARTIKI DAMANEKAR

### 159. IDENTIFYING THE AMOUNT OF FERTILIZATION REQUIRED FOR RICE CROPS USING IMAGE PROCESSING SYSTEM TO INCREASE THE YIELD

- CAMBRIDGE INSTITUTE OF TECHNOLOGY, BENGALURU  
GUIDES : DR. SHASHIKUMAR and MRS JAYANTHI M G  
STUDENTS : MS. ROMANA TAZEEN, MS. SHILPA H N., MS. USHA P and MS. YASHASWINI C

### 160. ADVANCED 3D IMAGE PROCESSING TECHNIQUE FOR MEDICAL FIELD

- NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY, BENGALURU  
GUIDE : MR. GOPINATH A R  
STUDENTS : MS. BINDUSHREE M., MS. NAVYA C R., MS. RANJITHA N., MS. THEJASWINI K M

## ELECTRICAL AND ELECTRONICS ENGINEERING

### 161. SOLAR PHOTOVOLTAIC PESTICIDE SPRAYER

- KLE DR. M. S. SHESHGIRI COLLEGE OF ENGINEERING & TECHNOLOGY, BELAGAVI  
GUIDE : PROF.P V KITTUR  
STUDENTS : MS. ROHINI PATIL, MR.MANGUESH PRASAD, MS. VIJETA MAHALE  
and MS. SOUMYASHREE PATIL

**162. ELECTRICITY GENERATION USING MUNICIPAL SOLID WASTE**

- ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELAGAVI  
GUIDE : PROF. SUPRIYA NARVEKAR  
STUDENTS : MR. DEVENDRA CHAWAN, MS. ASHVINI DESAI, MR. MAHESH JAYGONDE and MS. SNEHA KORE

**INSTRUMENTATION TECHNOLOGY**

**163. DESIGN OF EMBEDDED SYSTEM FOR REAL TIME TREMOR MEASUREMENT AND ANALYSIS**

- MS RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU  
GUIDE : MS. K M VANITHA  
STUDENTS : MR. JISHNU G., and MS. BHAVANA C

**INFORMATION SCIENCE AND ENGINEERING**

**164. AN APPLICATION FOR DAIRY FARMERS**

- KLE INSTITUTE OF TECHNOLOGY, HUBLI  
GUIDE : MR. NAGARAJ GADAGIN  
STUDENTS : MR. SIVAKOTI SURYAVARDHAN, MR. ANIT ANGADI  
MS. SHRUTI CHAVAN and MS. ANNAPURNA KATIMANI

**165. AIR MONITORING USING MICROCONTROLLER**

- BLDEA'S DR. PGH COLLEGE OF ENGINEERING AND TECH., VIJAYAPURA  
  
GUIDE : MS. SHWETA A. PATIL  
STUDENTS : MS. POOJA KAMBI, MS. TEJASWINI NALAWAR,  
MS. AKSHATA VITTAPPANAVAR and MR. SATISH JADHAV

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**166. HIGH TECH AND SMART TEC HELMET FOR BOTH RIDER AND PILLON USING IOT ENHANCING USER SITUATIONAL AWARENESS AND ACCIDENT REPORTING SYSTEM**

- ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKAMAGALUR  
GUIDE : MR. MADHU PRAKASH R  
STUDENTS : MR. KULKARNI NAVEEN SUDHIR, MR. KIRTHIRAJ N  
MS. ANUSHA Y M and MS. ASHA A S

**167. REAL TIME WIRELESS ELECTROCARDIOGRAM AND ITS SIGNAL DISPLAY**

- GM INSTITUTE OF TECHNOLOGY, DAVANGERE  
GUIDE : MS. ASHA T  
STUDENTS : MS. AISHWARYA K., MR. KARTHIK KUMAR K., MR. MADHU KUMAR N R and MS. MEGHANA K M

**168. BIOELECTRICAL IMPEDANCE BASED BODY FAT SCANNER**

- PA COLLEGE OF ENGINEERING, MANGALORE  
GUIDE : PROF. CHANDANA  
STUDENTS : MS. A MAHALASA PAI, MS. DEEPIKA AJAYKUMAR  
MS. GAYATHRI K M and MS. RABIYA SUHAIRA

**169. SMART MACHINE FOR PLASTIC WASTE DISPOSAL**

- VSM INSTITUTE OF TECHNOLOGY, NIPANI, BELAGAVI  
GUIDE : PROF.K.G.VASEDAR  
STUDENTS : MR. ALPESH UPADHYE, MR. SANDEEP SANKPAL, MS. SHEETAL SHINDE and MS. VARSHARANI BIVASHE

**170. PROVIDING VOICE ENABLED GADGET ASSISTANCE TO INMATES OF OLD AGE HOME INCLUDING PHYSICALLY DISABLED PEOPLE**

- NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU  
GUIDE : MRS. KUSHALATHA M.R  
STUDENTS : MS. ABHIRAMI BALARAMAN and MS. AKSHATHA P

**BEST PROJECTS OF THE YEAR (Biofuel projects)**

**SEMINAR PROJECTS**

**B.E Project on Biofuels**

**171. DESIGN AND FABRICATION OF ECONOMICALLY VIABLE HYBRID PHOTO-BIOREACTOR (CLOSED BUBBLE COLUMN) PROTOTYPE FOR CULTIVATION OF ELITE MICROALGAE FOR ENHANCED LIPIDS (BIODIESEL) YIELD**

- NEW HORIZON COLLEGE OF ENGINEERING, MARATHAHALLI, BENGALURU  
GUIDES : MR. R.S. UPENDRA and DR. PRATIMA KHANDELWAL  
STUDENTS : MS. AAKRUTI RUIA, MS. AMULYA GRACE, MS. ANJALI TIWARI  
BRANCH : AUTOMOBILE ENGINEERING

**172. PRODUCTION OF CLEAN BIOFUEL FROM MICRO ALGAE**

- R.V. COLLEGE OF ENGINEERING, BANGALORE  
GUIDE : PROF. SHIVANDAPPA  
STUDENTS : MS. VIDYASHREE S and MS. NAVYASHRI S  
BRANCH : AUTOMOBILE ENGINEERING

**173. COMPARISONS OF PERFORMANCE EMISSION TEST USING BIODIESEL FROM SIMAROUBA AND WASTE COOKING OIL IN A C.I. ENGINE**

- RURAL ENGINEERING COLLEGE HULKOTI, GADAG  
GUIDE : PROF. SIDDESH N.  
STUDENTS : MR. MANJUNATH B. SASI, MR. AVINASH A. HULIGOL, MR. JISHAAN D. SIRSANGI and MR. MANJUNATHA CHAVADI  
BRANCH : MECHANICAL ENGINEERING

**174. PRODUCTION AND PURIFICATION OF LIQUID FUEL BY HOUSEHOLD PLASTIC WASTE FOR IC ENGINE**

- VSM INSTITUTE OF TECHNOLOGY, NIPANI  
GUIDE : PROF.SANTOSH K HULLOLI  
STUDENTS : MR. MAHESH B KUTOLI, MR. KALLAPPA S SHEGUNSHI  
MR. MITHUN A IMAGOUDANAVAR, MR. AMIT S MALAJI  
BRANCH : MECHANICAL ENGINEERING

**MBA, Project on Biofuels**

**175. FINANCIAL AND ECONOMIC ASSESSMENT OF BIODIESEL PRODUCTION AND USE IN BANGALORE**

- M.S. RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE  
GUIDE : DR. Y.M. SATISH  
STUDENTS : MS. DIVYASHREE R., MS. GOWTHAMI S., MS. KIRAN CHOUDRY R. and MR. HITESH C

### **M.Tech., Project on Biofuels**

176. **VALIDATION OF CST DESIGN 3-STAGE CONTINUOUS BIOREACTOR FOR SEWAGE FED LAKE RESTORATION ALONG WITH ALGAL BIOMASS RECOVERY FOR BIOFUEL PRODUCTION**

- BMS COLLEGE OF ENGINEERING, BANGALORE  
GUIDES : DR. SAMPATH KUMAR M.C. and DR. CHANAKYA H.N  
STUDENTS : MS. AFREEN AMAN  
BRANCH : ENVIRONMENTAL ENGINEERING

### **M.Sc., Project on Biofuels**

177. **BIOCONVERSION OF BIODIESEL DERIVED CRUDE GLYCEROL TO POLYHYDROXYALKANOTES / POLYHYDROXYBUTRATE (PHA/PHB)**

- GULBARGA UNIVERSITY, KALABURAGI  
GUIDES : PROF. G.R. NAIK and MR. PRAMOD BHIMRAO KULKARNI  
STUDENTS : MS. KOMAL SANJAY TIMANE, MS. SHOBHA GUDUR, MR. VISHNU JADHAV

### **EXHIBITION PROJECT**

### **B.E Project**

178. **HYDROGEN FUEL CELL VEHICLE**

- T. JOHN GROUP OF TECHNOLOGY, BANGALORE  
GUIDES : DR. SUJITH PRASAD E  
STUDENTS : MR. VIVEKANANDA M., MR. ABHISHEK G. SHETTY, MR. HARSHA S. and  
MR. MAHANTESH MADIWALAR  
BRANCH : MECHANICAL ENGINEERING

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