

# 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  
and 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

KSCST : SPP : 41<sup>st</sup> Series : Best Project of the year Details – 35<sup>th</sup> to 40<sup>th</sup> Series of SPP

### 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>o</sup> PROTECTED $\beta$ -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

## 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 ENGG., AND TECH., 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.SHIRODKAR, 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. EFFECT 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.HALAKATTI COLLEGE 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

KSCST : SPP : 41<sup>st</sup> Series : Best Project of the year Details – 35<sup>th</sup> to 40<sup>th</sup> Series of SPP

## 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 HIEMATH, 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 COMMODOE 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 BHOOMARADDI 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, MOODBIDRI  
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. HIREMATH  
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 KANNDA , 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 and 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. SIRSAANGI 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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# 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 – 40<sup>th</sup> SERIES: 2016-2017 held on 11<sup>th</sup> and 12<sup>th</sup> August 2017 at NMAM Institute of Technology, Nitte

## BEST PERFORMING COLLEGE AWARD : 2016-17 : 40<sup>TH</sup> SERIES OF SPP

St Joseph Engineering College, Vamanjoor, Mangaluru

## BEST PROJECTS OF THE YEAR (Seminar projects)

### AUTOMOBILE ENGINEERING

#### 179. COMPARATIVE STUDY OF PERFORMANCE AND EMISSION CHARACTERISTICS OF FOUR S I ENGINE UNDER VARIOUS BIO LUBRICANTS

- MALNAD COLLEGE OF ENGINEERING, HASSAN

GUIDE : DR. Y M SHASHIDHARA

STUDENTS : MR. HAMSARAJ, MR. JITHIN KUMAR RAI D.,  
MS. AKHILA KAUSHIK, MS. CHARAN RAJ B C

### BIOTECHNOLOGY

#### 180. REGENERATION, ELICITATION OF BIOACTIVE COMPOUND EXTRACTED FROM ENDANGERED MEDICINAL PLANT MUCUNA PRURIENS AND STUDY OF ITS INHIBITION ACTIVITY USING BIOMOLECULAR SIMULATION STUDIES

- RV COLLEGE OF ENGINEERING, BENGALURU

GUIDES : DR. LINGAYYA HIREMATH and MR. SHIVANANDAPPA

STUDENTS : MS. SHRUTHI I LALASANG

#### 181. ISOLATION AND IDENTIFICATION OF MICROLABS FOR ABSORPTION AND CONVERSION OF AMMONIA, NITRATES AND NITROGEN USING AQUAPONICS SYSTEM

- SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

GUIDES : MRS. BLESSY BABY MATHEW

MRS. SARANYA D, MR. ANANDA H V and DR. ANANDA S

STUDENTS : MR. MOHAN KUMAR N, MR. JAI KARTHIK J

### CHEMICAL ENGINEERING

#### 182. OPTIMIZATION OF BIOGAS PRODUCTION USING CHEMICAL ADDITIVES

- MANIPAL INSTITUTE OF TECHNOLOGY, MANIPAL

GUIDE : DR. GAUTHAM JEPPU and MR. KARTHIKA M

STUDENTS : MR. HIMANSHU GOYAL, MS. ASPHA MOHANTI and MR. ABHISHEK

#### 183. ELUCIDATING NANOPARTICLE-CELL INTERACTION FOR RATIONALE DESIGN OF INTRACELLULAR DRUG DELIVERY

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU

GUIDE : DR. SUDHIR H RANGANATH

STUDENTS : MS. ANISHA, MS. AFRAH, MS. ISIRI H L

## CIVIL ENGINEERING

184. APPLICATION OF IRON NANO PARTICLES (INP) FOR REMOVAL OF ARSENIC FROM GROUND WATER
- BASAVESHWARA ENGINEERING COLLEGE, BAGALKOTE
- GUIDE : DR. C B SHIVA YOGIMATH  
STUDENTS : MS. MITHALI, MS. KAVYA J., MS. UMA J PATKI and MS. USHA DHANER
185. SOIL STABILIZATION USING GEOSYNTHETIC MATERIAL (BAMBOO FIBERS)
- KLS VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECHNOLOGY, UTTAR KANNADA
- GUIDE : PROF. ASHIK BELLARY  
STUDENTS : MR. NAGARAJ KASHILKAR, MS. AROJA MIRASHI, MR. PRASHANT PATIL and MS. RAJESHWARI SHETTY
186. E3 SHELTER
- NMAM INSTITUTE OF TECHNOLOGY, NITTE
- GUIDE : DR. RADHAKRISHNAN K  
STUDENTS : MS. SOUMYA SUNILKUMAR MESTA, MR. SHUBHAM KUMAR GUPTA and MR. SHIVAM KUMAR and MR. VISHAL LAHKAR
187. CONVERSION OF SPENT COFFEE GROUNDS INTO RENEWABLE ENERGY
- SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD
- GUIDE : DR. S G JOSHI  
STUDENTS : MS. MADHU B RAIBAGI, MS. AKSHATA Y SHERKHANE and MS. MEGHA M EXAMBI, MS. NIDHI D JAIN

## COMPUTER SCIENCE AND ENGINEERING

188. VOICE BASED E-MAIL FACILITY FOR THE VISUALLY CHALLENGED PEOPLE
- NMAM INSTITUTE OF TECHNOLOGY, NITTE
- GUIDE : MR. VIJAYA MURARU T  
STUDENTS : MS. PARUL JHA, MS. SIKSHA KUMARI, MS. NISHA PAI and MS. PRATMIKA NAYAK
189. BIG DATA ANALYTICS TO IDENTIFY AGRICULTURE CROP AND AQUACULTURE FISH BASED DISEASES AND RECOMMENDATION OF A SOLUTION
- IMPACT COLLEGE OF ENGINEERING AND APPLIED SCIENCES, BENGALURU
- GUIDE : DR. B R MOHAN  
STUDENTS : MS. ANANYA R., MR. KIRAN VASISHTA T S., MS. SHILPARANI J

## ELECTRONICS AND COMMUNICATION ENGINEERING

190. FABRICATION OF GRAPHENE WITH ACTUATE CARBON MADE FROM COW DUNG AS ELECTRODE MATERIAL FOR ELECTROCHEMICAL SENSOR - A BIOMEDICAL APPLICATIONS
- KLE INSTITUTE OF TECHNOLOGY, HUBBALLI
- GUIDES : PROF. RAVI HOSAMANI and DR. NAGARAJ SHETTI  
STUDENTS : MS. PUSHPA M H., MS. ANUSHA S C., MS. SNEHA S P and MS. POOJA U BHAT
191. AN INTELLIGENT MOBILE APPLICATION FOR DETERMINATION OF HUMAN EYE SPECTACLE NUMBER
- KLE SOCIETY'S KLE COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI
- GUIDE : PROF. VIJAY L HALLAPPANAVAR  
STUDENTS : MS. NETRAVATI R SUNAGAR, MS. ANURADHA M KUDATARKAR and MS. POORNIMA S SUNAGAR

## **ELECTRICAL AND ELECTRONICS ENGINEERING**

### **192. PULSED ELECTRIC POWER BASED ENGINE EXHAUST CLEANING**

- BMS COLLEGE OF ENGINEERING, BASAVANAGUDI, BENGALURU
- GUIDE : PROF. D RAMESH KUMAR  
STUDENTS : MS. DEEKSHA H C., MS. CHINMAYI MOHAN  
MS. PRIYANKA KALIWAL and MS. M SHEYAMALA

## **INFORMATION SCIENCE ENGINEERING**

### **193. AGRIBOOK (SOCIAL WEBSITE FOR AGRICULTURE)**

- PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA
- GUIDE : MR. ARJUN U  
STUDENTS : MS. SWETHA N H., MS. SHREEYA P JAIN  
MR. SANDESH MUTTU B P., and MR. DHREERAJ T S

## **MECHANICAL ENGINEERING**

### **194. DESIGN, DEVELOPMENT AND TESTING OF MODEL WIND MILL BLADE USING ADDITIVE MANUFACTURING PROCESS**

- SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA
- GUIDE : MR. SHASHIDHAR A L  
MR. BASAVAROODH A BADIGER  
STUDENTS : MR. JAMEER PASHA, MR. SIBGATULLA KHAN  
MR. SHAMSHER ALAM and MR. TAHA KHAN

### **195. AERO-BLENDING OF ETHANOL FOR INTERNAL COMBUSTION ENGINE**

- ST. JOSEPH ENGINEERING COLLEGE, MANGALURU
- GUIDE : DR. JOSEPH GONSALVIS  
STUDENTS : MR. ROHAN MANUEL D SOUZA, MR. ROYDON MANVEL D SOUZA  
MR. STEPHEN ERIC MADTHA and MR. SHELDON WILBERT D SOUZA

### **196. SUGARCANE PLANTATION EQUIPMENT**

- BLDEA'S V P DR. P G HALAKATTI COLLEGE OF ENGG., AND TECHNOLOGY, VIJAYAPURA
- GUIDE : PROF. SAMEER S KULKARNI  
STUDENTS : MR. RAKESH KULKARNI, MR. RAJENDRA SANAL  
MR. SACHIN PATIL, MR. CHISTI HASAN MASALI

### **197. STUDIES ON INVERSE DIFFUSION FLAMES AND HEAT TRANSFER USING INVERSE DIFFUSION FLAME BURNER**

- KLS VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECH., UTTAR KANNADA
- GUIDE : PROF. SHANKAR BADIGER  
STUDENTS : MR. RAGHAVENDRA PATTAR, MS. PRIYANKAJAYARAMRAJU  
MR. ROHIT CHANDRU NAIK and MR. SHIVAREDDI G KONAREDDI



## BEST PROJECTS OF THE YEAR (Exhibition projects)

### AUTOMOBILE ENGINEERING

#### 198. DESIGN AND FABRICATION OF LOW COST TRICYCLE FOR HANDICAPS USING STEERING COLUMN PROPULSION

- BLDEA'S V P DR. P G HALAKATTI COLLEGE OF ENGINEERING AND TECH., VIJAYAPURA  
GUIDE : PROF. IRESH G BHAVI  
STUDENTS : MR. SHIVRAJ KAROSHI, MR. GANGADHAR KORI  
MR. ABDULKUDDUS N MANOLI and MR. JYOTEPPA ATHANI

### CHEMICAL ENGINEERING

#### 199. EXTRACTION OF CHITIN FROM PRAWN SHELL, PREPARATION OF CHITOSAN BY BIOLOGICAL METHOD AND APPLICATION

- SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD  
GUIDE : PROF. RASHMI S H  
STUDENTS : MR. MAHENDRA, MR. BASAVARAJ BIRADAR and MR. KRISHNAJI MALADKAR

### CIVIL ENGINEERING

#### 200. DEVELOPMENT OF NOISE ABSORBING COMPOSITE MATERIALS USING AGRO WASTE PRODUCTS

- SCHOOL OF ENGINEERING AND TECHNOLOGY, JAIN UNIVERSITY, BENGALURU  
GUIDE : PROF. M.R. PRANESH  
STUDENTS : MS. TEJASWINI M., MR. NAGENDRA K.S.  
MS. SOWJANYA H.S., MR. SUNIL KUMAR K

### COMPUTER SCIENCE AND ENGINEERING

#### 201. 24 x 7 LIFELINE CHIP FOR MILITANTS

- GIRIJABAI SAIL INSTITUTE OF TECHNOLOGY, KARWAR  
GUIDE : PROF. SANTOSH ANAND  
STUDENTS : MS.SHWETA S. NAIK, MS. MEGHA R VERNEKAR and MS. NIDHI D NAIK

#### 202. ELECTRONIC STUDENT PROJECT PROPOSAL

- JYOTHY INSTITUTE OF TECHNOLOGY, BENGALURU  
GUIDE : MR. NIRANJAN R CHOUGALA and MR. KUMAR B I D  
STUDENT : MR. VISHAL SRINIVAS

### ELECTRICAL AND COMMUNICATION ENGINEERING

#### 203. PREPAID PAYMENT FOR UTILITIES

- DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU  
GUIDE : PROF. CHANDRASEKHARA N.  
STUDENTS : MR. DARSHAN N., MS. BHAVANA KULKARNI K.  
MS. H. E. BINDUSHREE and MR. GOUTHAM S.

#### 204. WIRELESS SAFE, SMART AND SECURED DRIVING SYSTEM

- KLE DR. M.S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELAGAVI  
GUIDE : DR. RAJASHRI KHANAI  
STUDENTS : MS. ASHWINI PAWALE, MS. AISHWARYA ADAKE  
MS. SNEHAL CHOUGULE and MS. PRIYANKA KARADE

**205. SMART WATER METER USING WIRELESS NETWORKING**

- M.S. RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU
- GUIDES : PROF. SARALA S M and PROF. G S RAMESH SHARMA  
STUDENTS : MS. GULABI MANDAL, MS. HARSHITHA S V  
MR. HRISHIKESH AIYAPPA and MS. CANDICE GALLYOT

**206. IOT BASED SMART PUBLIC DISTRIBUTION SYSTEM**

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU
- GUIDE : MRS. S MALA  
STUDENTS : MR. MALLIKARJUN B S., MR. ANIL, MS. MEGHANA R V. and MS. BINDUSHREE M S

**207. A SMART WRIST BAND BASED HUMAN INTERFACE DEVICE FOR PWD**

- THE OXFORD COLLEGE OF ENGINEERING, BENGALURU
- GUIDES : PROF. DR. PREETA SHARAN and PROF. MR. JAYARAJ N.  
STUDENTS : MS. SUSHRUTHA H.B., MS. MANJULA RAMANNA KURI  
MS. PRAGATHI A.R., and MS. PAVITHRA M.

**208. AUTOMATED RUBBER TAPERING MACHINE**

- VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR
- GUIDE : MS. SANGEETHA B L  
STUDENTS : MR. NANDANA SHYAMA P., MR. MADHURAJ M N  
MR. VINAYAKA NAYAK N. and MR. ATHUL SANKER N

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**209. ARECANUT TREE CLIMBER AND PESTICIDE SPRAYER**

- ST. JOSEPH ENGINEERING COLLEGE, MANGALURU
- GUIDE : PROF. DIVYA K PAI  
STUDENTS : MR. JNANASAGAR KAMATH, MR. JNANESH BEKAL  
MR. NIXON D'SOUZA and MR. MANJUNATH K

**INFORMATION SCIENCE AND ENGINEERING**

**210. DEVELOPING ERP FOR TORQUE, DIMENSION AND ELECTRICAL CALIBRATION FOR FLUTECH ENGINEERING PVT. LTD.**

- BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT, YELAHANKA, BENGALURU
- GUIDE : PROF. ASHWINI N.  
STUDENTS : MR. DHEERAJ A.S., MR. ADITYA BHAT and MR. MOHAMMED ZAID

**211. DEVELOPMENT OF DATA ACQUISITION FOR UNDERGROUND WATER AND GAS PIPELINE LEAKAGE MONITORING USING IOT**

- HKBK COLLEGE OF ENGINEERING, BENGALURU
- GUIDES : PROF. SYED MUSTAFA A and MRS. SAVITHRI RAMESH  
STUDENTS : MS. NEETHI RAMAIAH, MS. DIVYA P and MS. POORNIMA P

**MECHANICAL ENGINEERING**

**212. DESIGN AND FABRICATION OF COIN OPERATED PORTABLE WATER VENDING MACHINE**

- ATME COLLEGE OF ENGINEERING, MYSURU
- GUIDE : MR. RAKSHITH N  
STUDENTS : MR. D V RAAGU, MR. GAYAZ MOHAMED, MR. MD MOHIYUDDIN SHARIFF  
and MR. MOHAMMED YASEEN AHMED

213. **DESIGN AND FABRICATION OF MULTI PURPOSE ROBUST CUTTING MACHINE FOR AGRICULTURAL**
- VSM INSTITUTE OF TECHNOLOGY, NIPPANI
- GUIDE : PROF. MAHADEV N. HARKUDE  
STUDENTS : MR. AKASH K. CHOUGULE, MR. SWAPNIL B. NIMBALKAR  
MR. SURAJ B. PATIL and MR. AKSHAY G. HUNSHALE
214. **MULTITALENTED ROBOT MACHINE FOR ARECANUT FARMING TO AVIOD ARECANUT WASTE**
- VSM INSTITUTE OF TECHNOLOGY, NIPPANI
- GUIDE : PROF. AMAR V. NAVALIHALKAR  
STUDENTS : MR YUVARAJ D. PATIL, MR. ZABIULLA B. NADAF  
MR. NANDKUMAR B. PATIL, MR. KIRAN B. HAJARE
215. **AUTOMATED PROSTHETIC LEG**
- AMC ENGINEERING COLLEGE, BENGALURU
- GUIDES : PROF. MADHU MOHAN R., and DR. GIRISHA C  
STUDENTS : MR. VENKATESH PAVAN M., MR. J PURUSHOTHAMA  
MS. ANUSHA P S., and MR. ABHILASH P
216. **DESIGN AND FABRICATION OF MULTIPURPOSE AGRICULTURAL EQUIPMENT**
- CITY ENGINEERING COLLEGE, BENGALURU
- GUIDE : MR. SAMPATH H P  
STUDENTS : MR. KIRAN B., MR. PRAMODH H N  
MR. KARTHIK S., and MR. MANOJ KUMAR K V
217. **CONVERSION OF WASTE BAGASSE TO BIO-OIL BY PYROLYSIS AND UTILIZATION OF ITS PRODUCTS**
- BILURU GURUBASAVA MAHASWAMIJI INSTITUTION OF TECHNOLOGY, BAGALKOTE
- GUIDE : PROF. H V MULIMAN  
STUDENTS : MR. SHRINATH P KHOT, MR. VINOD K TIPPIMATH  
MR. NAVEEN S HALLAD and MR. PARASHURAM K BENNI
218. **DESIGN AND FABRICATION OF AN ARTIFICIAL LEG MECHANISM FOR ABOVE - KNEE AMPUTEES**
- KLE DR. M.S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELAGAVI
- GUIDES : PROF. SATISH HULAMANI and PROF. U B KADABADI  
STUDENTS : MR. ABHISHEK D PATTANSHETTI, MS. AFREEN GOVE  
MR. DARSHAN RAIKAR, MR. NITISH S CHAVAN

## **MECHATRONICS**

219. **MINE EXPLORATION, RECOVERY AND SECURING INSTRUMENT (MERSI)**
- ACHARYA INSTITUTE OF TECHNOLOGY, BENGALURU
- GUIDE : PROF. RANGANATH GOWDA L  
STUDENTS : MR. KUMAR DHARUV RAMAKRISHNAN, MR. NAUMAN IBRAHIM  
MR. AKSHAY VERNEKAR, MS. ANVITHA GATTAMANENI

## **TELECOMMUNICATION ENGINEERING**

220. **IMPLEMENTATION OF SPATIAL AUGMENTATED REALITY TO CONTROL ROBOTIC ARM**
- K S INSTITUTE OF TECHNOLOGY, BENGALURU
- GUIDE : PROF. K. SENTHIL BABU  
STUDENTS : MR. BHARATH GOWDA P S., MR. RAHUL KUMAR A  
MS. SIRISHA N S., MS. NISHKALA

## TEXTILE ENGINEERING

### 221. DESIGN AND DEVELOPMENT OF NATURAL PLANT FIBRE EXTRACTING MACHINE

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
- GUIDE : DR. K MURUGESH BABU  
STUDENTS : MR. GANESH R., MS. LAVANYA V., MS. SHUBHA B V

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

## B.E Project on Biofuels

## CIVIL ENGINEERING

### 222. SUSTAINABLE ENERGY GENERATION BY BIOFUEL CELL FROM SEPTIC TANK

- NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU
- GUIDE : DR. K. KUMAR  
STUDENTS : MS. YOGASHREE G., MR. VIVEK KUMAR, MR. SANESH REGMI  
and MS. SHALINEE SINGH

## MECHANICAL ENGINEERING

### 223. DESIGN AND FABRICATION OF SIMAROUBA GLAUCA SEED DEPULPING MACHINE

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU
- GUIDE : MR. OMKARESH B.R.  
STUDENTS : MR. MANIKANTA B., MR. NAVEEN KUMAR BADIGER A., and MS. KUSUMA C.

### 224. ACETYLENE USED AS ALTERNATIVE FUEL IN PETROL ENGINE

- SRI TARALABALU JAGADGURU INSTITUTE OF TECHNOLOGY, RENE BENNUR
- GUIDE : MR. VINAYAK KOPPAD  
STUDENTS : MR. RAKESH R. DWARAPALAK, MR. HARISH A. HARIBAL  
MR. ABDUL RAHAMAN M. SUNNAKHAN and MR. SANTOSH P. ULLAGADDI

### 225. PRODUCTION OF BIODIESEL FROM MANILKARA ZAPOTA (CHIKOO OR SAPODILLA) SEED OIL AND PERFORMANCE CHARACTERISTICS STUDY ON SINGLE CYLINDER CI ENGINE

- AMRUTHA INSTITUTE OF ENGINEERING AND MANAGEMENT SCIENCES, BIDADI
- GUIDE : MR. RAMESH N.  
STUDENTS : MR. S. NAVEEN KUMAR, MR. G.E. JAIKRISHNA and MR. AKASH B.K.

### 226. PERFORMANCE TEST ON 4 STROKE SINGLE CYLINDER DIESEL ENGINE USING DIESEL BLENDED WITH CORN ETHANOL AS A FUEL

- CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, GUBBI
- GUIDE : MR. NAGESH S.B.  
STUDENTS : MR. MANU A.S., MR. KOUSHIK T.M., MR. MAHENDRA D.M.,  
and MR. K. VARUN KUMAR

## **M.Tech.**

**227. PRODUCTION OF BIODIESEL FROM DAIRY WASH WATER SCUM THROUGH HETEROGENEOUS CATALYST AND PERFORMANCE EVALUATION OF TBC DIESEL ENGINE FOR DIFFERENT DIESEL AND METHANOL BLEND RATIOS**

- CENTRE FOR POST GRADUATE STUDIES, MYSURU

GUIDE : MR. KRISHNAMURTHY K.N.

STUDENT : MR. VENKATESH B.J.

## **M. Sc., AGRICULTURAL BIOCHEMISTRY**

**228. BIODIESEL AND BIOETHANOL PRODUCTION FROM THE TERRESTRIAL ALGAE AND THEIR BYPRODUCTS**

- COLLEGE OF AGRICULTURE (UAS), HASSAN

GUIDE : MR. MOHAN CHAVAN

STUDENT : MR. MANOJ B.S.

## **M. Sc., FORESTRY AND ENVIRONMENTAL SCIENCE**

**229. STUDIES ON BIOAVAILABILITY OF NUTRIENTS IN DECOMPOSED CRUSHED SEEDS, OIL CAKES AND DEOILED CAKES OF NEEM (AZADIRACHTA INDICA)**

- UNIVERSITY OF AGRICULTURAL SCIENCE, GKVK, BENGALURU

GUIDE : DR. K.T. PRASANNA

STUDENTS : MR. KIRAN S.C.

## **MBA**

**230. COST BENEFIT ANALYSIS OF BIO DIGESTER INSTALLED AT SAHYADRI FOOD COURT**

- SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, ADYAR, MANGALURU

GUIDE : DR. K. VIDYAVATHI

STUDENTS : MR. SHAROOK B., MS. SAYONA A JOSEPH, MR. WILSON MASCARENHAS  
MS. MOKSHA D.S

## **EXHIBITION PROJECTS**

## **M. Tech.,**

**231. SYNTHESIS AND CHARACTERIZATION OF PHENOL BASED POLYMERIC RESIN, EXTRACTED FROM CASHEW NUT SHELL LIQUID (CNLS) OIL FOR INDUSTRIAL APPLICATIONS**

- R. V. COLLEGE OF ENGINEERING, BENGALURU

GUIDES : DR. M.S. KRUPASHANKARA and DR. SHAMAAN M.P.

STUDENT : MR. BISHAK ROY CHOUDHURY