

# 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**

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

The Best Performing College Award goes to **NMAM Institute of Technology, Nitte, Karkala**. This award has been decided based on the following parameters of projects demonstrated by students such as

1. Projects invited and sanctioned
2. Participation in Seminar and Exhibition projects
3. Project Presentation
4. Projects Awarded
5. Innovation and creativeness in the concept

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

### **MECHANICAL ENGINEERING**

#### **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.

MR. VINAY H.K.

### **AERONAUTICAL ENGINEERING**

#### **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

MR. ABHILASH U SHETTY

## **BIOTECHNOLOGY**

### **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  
GUIDE : MRS. BHAVYA S.G.  
DR. K. N. CHIDAMBARA MURTHY  
STUDENTS : MS. KEERTHI V R

## **CHEMICAL ENGINEERING**

### **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  
MS. RAJESHWARI DESAI

## **CIVIL ENGINEERING (STRUCTURES)**

### **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 YADAHALLI  
MR. REDDY MANOHAR  
MR. TALEK GAPAK.  
MR. BASALINGAYYA KASHIMATH

### **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  
MR. NAGIREDDY M

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

### **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

DR. SURESH B

STUDENTS : MS. MANASA KAKANUR R J

### **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

MS. RASHMISHREE K N

STUDENTS : MR. SHELTON RAINER PINTO

MR. ABHITH G

MS. RENITHA G. DSOUZA

MS. SHRIKALPA P

## **INFORMATION SCIENCE ENGINEERING**

### **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**

### **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

Ms. MADHUMITA PODDAR

## **ELECTRONICS AND COMMUNICATION**

### **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**

### **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**

### **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

### **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**

### **"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**

### **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

### **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

### **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

## **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

## **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.

MR. VISHAL M

## **INDUSTRIAL AND PRODUCTION ENGINEERING**

### **MULTIPURPOSE FARM ROBOT**

- BV BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI

BRANCH : INDUSTRIAL & PRODUCTION ENGG

GUIDE : MR. B B KOTTURSHETTAR

STUDENTS : MS. SUSHMA BIJAPUR

MS. SUPRITA KULKARNI

MS. SAHANA SHIVANGI

MS. SANCHAYAN ROY

## **ELECTRONICS AND COMMUNICATION**

### **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

## **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

## **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**

### **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 ALWANDIKAR

MS. SHRUTI SANKAPPAVAR

MS. SWATI GUDDAD

MS. VINDHYA B

## **INFORMATION SCIENCE AND ENGINEERING**

### **"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 BULAGANNAVAR

MS. AMRITA SATHURI

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

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

#### **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

DR. PRATIMA KHANDELWAL

STUDENTS : MS. PRATIBHA K

MS. SMITHA K

MS. MOUNISHA R

MS. SRUJANA K N

#### **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.

#### **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



## **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**

### **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

### **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**

### **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