

# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bangalore - 560 012

**List of projects selected for “PROJECT OF THE YEAR” award  
during the Seminar and Exhibition of Student Projects – 36<sup>th</sup> SERIES: 2012-13  
held on 30<sup>th</sup> and 31<sup>st</sup> August 2013 at  
ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELGAUM**

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

The Best Performing College Award goes to **B. V. BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI** This award has been decided based on several parameters demonstrated by students such as

1. Relevance to industry
2. Innovation and creativeness in the concept
3. Efforts put into the concept
4. Infrastructure used
5. Participation in Seminar and Exhibition projects
6. Project Presentation
7. Economic viability and Simplicity in the projects.

in addition, overall performance by the students of the college in all project seminars and exhibitions.

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

### **ENVIRONMENTAL ENGINEERING**

#### **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.  
MS. SOWMYA M. S.

STUDENTS : AASHITH LOREN LOBO  
DEEPIKA B U  
SHARAYU UMESH KARKERA

### **CIVIL ENGINEERING**

#### **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  
VIJAY SAI K.

## **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

SUMITH KUMAR

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

COLLEGE : R V COLLEGE OF ENGINEERING, BANGALORE

GUIDE : DR. RADHAKRISHNA

STUDENT : MATHEW JOE

ANIRUDH K A

SACHIN MARUTHI

## **COMPUTER SCIENCE AND ENGINEERING**

### **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.

CHARAN S. N.

## **INFORMATION SCIENCE AND ENGINEERING**

### **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

SAGAR A B

### **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

SUHAS K A

## **ELECTRONICS AND COMMUNICATION**

### **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  
APARNA H R

## **ELECTRICAL AND ELECTRONICS**

### **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  
MS BANDHAVYA C

## **MECHANICAL ENGINEERING**

### **DUAL CYLINDER AIR COMPRESSED CAR**

COLLEGE : SHIRDI SAI ENGINEERING COLLEGE, BANGALORE

GUIDE : MR. MAHESH S

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

### **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  
MR. SRINIDHI KATTIMANI

## CHEMICAL ENGINEERING

### **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

DR. H. S. LALITHAMBA

STUDENTS: MR. ASHWIN M K

MS. RACHANA PRASAD

MR. RAHUL PRASAD

MR. RITWIK KAR

## POLYMER SCIENCE AND TECHNOLOGY

### **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

M.J. SANDEEP KUMAR

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

### **COMPUTER SCIENCE AND ENGINEERING**

#### **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.  
MR. VINEETH KUMAR V.

### **INFORMATION SCIENCE ENGINEERING**

#### **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  
SHEDOLE SNEHA

### **CONSTRUCTION TECHNOLOGY AND MANAGEMENT**

#### **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  
PRIYALI L SEQUEIRA

### **BIOMEDICAL ENGINEERING**

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

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE

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

STUDENTS : KEERTHISHREE B.M.  
MADHAVI M DEVAN  
NAVEEN KUMAR SM  
VISHAL KOTEMANE

## **ELECTRICAL AND ELECTRONICS**

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

COLLEGE : ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELGAUM

GUIDE : Prof. VINAY PATTANASHETTI

STUDENTS : ANITHA GUMAJI  
DHANASHRI PATIL  
MALLES C G  
SUSHMA N H

## **ELECTRONICS AND COMMUNICATION**

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

COLLEGE : ACHARYA INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : MRS. RAJESWARI

STUDENTS : GAURAV R.  
DEEPAK J.

### **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  
PRABHUDEVARU K M

### **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  
VAMAN KALKUNDRIKAR

### **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  
MR.RIGVEDA DESHPANDE

## **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  
RAGHAVENDRA.S

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

## **MECHANICAL ENGINEERING**

### **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  
ANAND

### **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  
MR.PRASANNA P.DESAI

### **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  
ABHIJITH H

### **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  
PRASHANTH PETER

## **INDUSTRIAL PRODUCTION**

### **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

GOPAL KALBURGI

### **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

RAKESH PANDEY



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

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

#### **BIOTECHNOLOGY**

##### **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

Ms. GANAPARTI SUJANA

#### **MECHANICAL**

##### **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

Mr. ARUNKUMARA H N

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

#### **MICROBIOLOGY**

##### **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

Ms. GEETHA PRAKASH D

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

#### **MECHANICAL ENGINEERING**

##### **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

Dr. S SHANMUKHAPPA

STUDENTS : Mr. SACHIN MURJAPURE