

# 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

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

The Best Performing College Award goes to **VSM INSTITUTE OF TECHNOLOGY, NIPANI, BELAGAVI**. This award has been decided based on the following parameters of projects demonstrated by students such as;

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

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

#### **MECHANICAL ENGINEERING**

##### **1) 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

##### **2) 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

##### **3) 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

##### **4) 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**

##### **5) 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

### 6) 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,  
MR. ADITYA RAM PN

## CIVIL ENGINEERING (STRUCTURES)

### 7) 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

### 8) 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)

### 9) 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

### 10) 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

### 11) "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

### 12) 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**

### **13) 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**

### **14) 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

### **15) 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

### **16) 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

### **17) 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

### **18) 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

### **19) 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**

### **20) 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**

### **21) 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**

### **22) 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

### **23) 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

### **24) 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

### **25) 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**

### **26) 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

### **27) 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**

### **28) 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**

### **29) 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

### **30) 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**

### **31) 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

### **32) 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

### **33) 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

### **34) 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

### **35) 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

#### 36) 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

#### 37) 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

#### 38) 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

#### 39) 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

#### 40) 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

#### 41) 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**

### **42) 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**

### **43) 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

\* \* \* \* \*