

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 – 41st SERIES: 2017-18
held on 10th and 11th August 2018 at
Bapuji Institute of Engineering and Technology, Davanagere

BEST PERFORMING COLLEGE AWARD : 2017-18 : 41st SERIES OF SPP

K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI

BEST PROJECTS OF THE YEAR (Seminar projects)

AUTOMOBILE ENGINEERING

1. REPLACEABLE DIESEL PARTICULATE FILTER

- NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU

GUIDES : Mr. GIRISH TILAK and KARTHIK A.V

STUDENTS : Mr. SRIRAM IYER, Mr. MOHD RAHMATULLAH SHAHBAAZ,
Mr. S. KAUSHIK VINAYAK, Mr. SAGAR SURI

BIOTECHNOLOGY

2. DEVELOPMENT OF ECOFRIENDLY AND COST EFFECTIVE BIODEGRADABLE SANITARY NAPKIN

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

GUIDES : Dr. MANJUNATH N.S. and Dr. B.E. RANGASWAMY

STUDENTS : Ms. MEGHANA B.J., Ms. POOJA ASHOK HIREGOUDAR, Ms. NAMRATHA M.

CIVIL ENGINEERING

3. COMBINED PHYSICO-CHEMICAL TREATMENT FOR THE COLOUR REDUCTION OF TEXTILE WASTEWATER

- MALNAD COLLEGE OF ENGINEERING, HASSAN

GUIDE : Mr. KISHOR KUMAR S

STUDENTS : Ms. RANJITHA K M., Ms. HARSHITHA T., Ms. ARSHITHA H P., Ms. CHAITHRA V B

4. SEWAGE TURBINES : PICO HYDROPOWER OPPORTUNITIES FROM TREATED SEWAGE WATER

- B.M.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, YELAHANKA, BENGALURU

GUIDE : Mrs. ARCHANA K

STUDENTS : Ms. HARSHITHAS., Mr. SATHYANARAYANK R., Mr. NIKHIL M V., Mr. PRATIK PAUL

5. ELECTRICITY GENERATION FROM SUGAR MILL WASTEWATER BY MICROBES

- BASAVESHWARA ENGINEERING COLLEGE, BAGALKOT

GUIDE: Prof. G. M. HIREMATH

STUDENTS : Ms. SHIVANI. N. OBALEPPANAVAR, Ms. ARUNA. A. BANAKAR, Ms. JYOTI CHAKKADI
Ms. RAJESHWARI. BILAGI

6. SOIL EROSION SUSCEPTIBILITY ASSESSMENT USING MORPHOMETRIC PARAMETERS AND SEDIMENT YIELD IN THE RIVER AGHANASHINI, UTTARA KANNADA, KARNATAKA : AN APPROACH OF REMOTE SENSING AND GIS

- SHREE DEVI INSTITUTE OF TECHNOLOGY, MANGALURU

GUIDE : Dr. JAYARAM NAIK

STUDENTS : Mr. JUSTIN DARYL DSOUZA, Ms. CHANDANA M., Mr. GANGADHARA R., Mr. SHARAN S SHETTY

7. EVALUATING THE EFFICIENCY OF ACTIVATED TEAK LEAVES AND BANANA TRUNK IN THE REMOVAL OF SYNTHETIC DYE FROM AQUEOUS SOLUTION

- SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDES : Mrs. VYSHNAVI D.R. and Dr. SHIVANNA. S

STUDENTS : Mr. MURALI. V., Mr. AJAY S.H., Mr. SHARATH KUMAR D., Mr. SHASHI KIRAN K

COMPUTERSCIENCEANDENGINEERING

8. SMART SALVAGE

- VEMANA INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDES : Mrs. A. ROSELINE MARY and Mrs. VEENA. G

STUDENTS : Mr. HARIKRISHNAN. U., Ms. KAVYA. V., Ms. KOUSALYA. M., Ms. LAKSHMI. N. G

9. ANDROID BASED APPLICATION TO DETECT POTHOLES AND UNEVEN ROADS IN THE CITY

- THE OXFORD COLLEGE OF ENGINEERING, BENGALURU

GUIDES : Prof. SOWMYA HK and Dr. R.J. ANANDHI

STUDENTS : Ms. CHAITANYA S., Mr. AMIT DEBNATH, Mr. ARJUN ASHOK KUMAR, Mr. GEORGE JAMES

ENVIRONMENTAL ENGINEERING

10. PULP AND PAPER INDUSTRIAL WASTEWATER TREATMENT USING MODIFIED EXTERNAL MEMBRANE BIOREACTOR

- UNIVERSITY B.D.T. COLLEGE OF ENGINEERING, DAVANGERE

GUIDE : Dr. LOKESHAPPA B.

STUDENTS : Ms. SADIQUA ANJUM

INFORMATION SCIENCE ENGINEERING

11. IOT BASED FACIAL RECOGNITION DOOR ACCESS CONTROL SECURITY USING RASPBERRY PI 3 THROUGH IMAGE PROCESSING ALGORITHM

- ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDE : Prof. OMPRAKASH B

STUDENTS : Ms. ASHWINI BHAVIKATTI, Ms. AKSHATHA R

MEDICALELECTRONICS

12. ROLE OF BIOMARKERS IN DIAGNOSIS OF SEPSIS: C-REACTIVE PROTEIN AND PROCALCITONIN

- S.S. INSTITUTE OF MEDICAL SCIENCE AND RESEARCH CENTRE, DAVANGERE

GUIDE : Prof. V.L. JAYASIMHA

STUDENTS : Ms. ARPITA V. BABU, Ms. JEEVITHA B.J.

MECHANICAL ENGINEERING

13. IMPROVEMENT IN DOMESTIC LPG BURNER

- K.L.S. VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECHNOLOGY, HALIYAL

GUIDE : Prof. SHANKAR BADIGER

STUDENTS : Mr. SWAPNIL DHABALE, Mr. ABHISHEK JAGANUR, Mr. GURU PUJERI, Mr. ROHIT DASHAMANI

14. DESIGN AND FABRICATION OF TENDER COCONUT AND MATURED COCONUT PROCESSING UNIT

- KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR

GUIDE : Prof. MANJUNATH CHANNAPPAGAUDRA

STUDENTS : Mr. RANGEGOWDA N G., Mr. SIDDESH S., Mr. SRINIVASA K M., Mr. PRAVEEN K S

15. DESIGN AND FABRICATION OF ADJUSTABLE MULTISEASONAL HARVESTING MACHINE

- SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA

GUIDE : Dr. SYED ABBAS ALI and Mr. ALTAH HUSSAIN BAGWAN

STUDENTS : Ms. PRATIKSHA A. YADRAVKAR, Mr. VIJAYAKUMAR CHAVAN, Mr. PRAKASH RATHOD
Mr. RAJESH A. PAWAR

16. LPG REFRIGERATION SYSTEM WITH ZERO OPERATING COST

- GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

GUIDE : Dr. NAGRAJ R G

STUDENTS : Mr. ANAND, Mr. BABURAYA, Mr. SUBHASH, Mr. VINAYAK UDCHAN

17. ROTARY TYPE COCONUT DE-HUSKING MACHINE

- JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA

GUIDE : Prof. D S RAMAKRISHNA

STUDENTS : Mr. SHIVANAGOWDA K PATIL, Mr. RAKSHITH G B., Mr. LINGARAJA K., Mr. SWAMY M

POLYMER SCIENCE & TECHNOLOGY

18. POLYMER NANOCOMPOSITE BASED STRAIN SENSORS FOR STRUCTURAL HEALTH MONITORING

- SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING, MYSURU

GUIDE : Dr. SIDDARAMAIAH and Mr. NITHIN K S

STUDENTS : Ms. SUSHMITHA H., Ms. SHREE RAKSHA R., Mr. NIRANJAN BALACHANDAR, Mr. RAHUL DEVAANG

TELECOMMUNICATION ENGINEERING

19. ELLIPTIC CURVE CRYPTOGRAPHY DIGITAL SIGNATURE ALGORITHM

- DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU

GUIDES : Dr. A R ASWATHA

STUDENTS : Ms. AKANKSHA V DESHPANDE, Ms. ANAGHA V DESHPANDE, Ms. KEERTH K B., Ms. LOHITHA S

BEST PROJECTS OF THE YEAR (Exhibition projects)

BIOTECHNOLOGY

20. DESIGN AND FABRICATION OF PROTOTYPE LAB SCALE REACTOR FOR THE MANUFACTURE OF BIODEGRADABLE PVA FILM

- ACHARYA INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDES : Dr. SUNEETHA.T.B and Prof. LINY

STUDENTS : Ms. DEEPIKA P., Ms. SIMPANA D.K

CHEMICAL ENGINEERING

21. DEVELOPMENT OF A BIO-RESIN FROM ORGANIC WASTE AND IT'S APPLICATION TO MAKE HIGH STRENGTH WOOD COMPOSITES

- R.V. COLLEGE OF ENGINEERING, BENGALURU

GUIDE : Prof. VINUTHA MOSES

STUDENTS : Ms. SUMEDHA BHAT, Mr. SNEHIL KUMAR B., Mr. AKSHAY C.B., Mr. RISHIL RAI

CIVIL ENGINEERING

22. HYDROPONIC IRRIGATION SYSTEM FOR CONSERVATION OF WATER AND REUSE

- VIDHYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU

GUIDE : Ms. ICHITHA M K

STUDENTS : Ms. RASHMI S P., Mr. AKSHAY KUMAR M P., Mr. KARTHIK S., Ms. SANTHOSH K V

COMPUTER SCIENCE AND ENGINEERING

23. SCENE ANALYSIS FOR VISUALLY IMPAIRED

- SAMBHRAM INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDE : Prof. NARAYAN K.

STUDENTS : Mr. KARTHIK B P., Mr. GOKUL KRISHNA G., Mr. KISHAN KUMAR B K., Mr. AMAN KUMAR

24. POSE INVARIANT KEY POINT BASED FACE RECOGNITION SYSTEM

- SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU

GUIDE : Ms. SWATHI

STUDENTS : Ms. KRITHIKA, Ms. ANISHA D. KULAL, Ms. NAVYASHREE, Ms. ROSHAN SUNAINA M.

25. VIRTUAL MIRROR- A HASSLE APPROACH FREE TO THE USE OF TRIAL ROOM

- ST. JOSEPH ENGINEERING COLLEGE, MANGALURU

GUIDE : Ms. NISHA JENIFER ROCHE

STUDENTS : Mr. RANJITH KUMAR B., Mr. MOHMMED AWSAF ALI, Ms. S DHANASHREE, Ms. PRITHVI V

ELECTRONICS AND COMMUNICATION ENGINEERING

26. RIDER SAFETY SYSTEM USING EMBEDDED SYSTEM

- A.T.M.E. COLLEGE OF ENGINEERING, MYSURU

GUIDE : Dr. YATHISHA L

STUDENTS : Mr. RAHID AHMED, Mr. PURUSHOTHAM N., Ms. THULASI V

27. SECURITY OF ATM SYSTEM USING RFID AND OTP

- B.L.D.E.A's VACHANA PITAMAHA Dr. P. G. HALAKATTI COLLEGE OF ENGG., & TECHNOLOGY, VIJAYAPURA

GUIDE : Prof. M.N.DESHMUKH

STUDENTS : Ms. ARCHANA A.TALIKOTI, Ms. DEEPAMODI, Ms. LAXMITALIKOTI

28. SMART GADGET FOR WOMEN SAFETY USING IoT

- BASAVESHWARA ENGINEERING COLLEGE, BAGALKOT

GUIDE : Dr. JAYASHREE D MALLAPUR

STUDENTS : Mr. MOHAMAD ZIKRIYA, Mr. PARMESHWAR M G., Mr. SHANMUKAYYA R MATH, Ms. SHRADDHA T.

29. IMAGE PROCESS BASED MULTI LINGUAL TRANSLATOR FOR TRAVELLERS AND VISUALLY IMPAIRED USING OCR ON RASPBERRY PI

- SRINIVAS SCHOOL OF ENGINEERING, MANGALURU

GUIDES : Ms. APARNA N S., and Mr. NAGARAJA N S

STUDENTS : Mr. SUDHAKARA NAIK, Mr. BHEEMASHANKAR, Mr. SHRIDHAR K., Mr. SWASTIK

30. AUTOMATED UNION OVER TOUCH ENABLED SYSTEM (AUTES)

- ST. JOSEPH ENGINEERING COLLEGE, MANGALURU

GUIDE : Mr. GANDHIMATHINATHAN

STUDENTS : Mr. DAVID JOHN SALDANHA, Ms. ADLEN D'SOUZA, Ms. ASHWINI V KOTTARI,
Ms. MADHUSHREE T CHAVAN

INFORMATION SCIENCE AND ENGINEERING

31. IMPLEMENTING INTELLIGENT TRAFFIC CONTROL SYSTEM FOR CONGESTION, AMBULANCE CLEARANCE AND STOLEN VEHICLE DETECTION

- VIDHYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU

GUIDES : Prof. PRASHANTH M.V. and Prof. PREMA N.S

STUDENTS : Ms. GUL AFSHAN, Ms. KAVYASHREE D., Ms. NISCHITHA H.D., Ms. SWETHA RANI S

32. IoT BASED DELIVERY BOYS SAFETY CONTROL AND BIKE ANALYZER

- G.S.S.S. INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN, MYSURU

GUIDES : Dr. RESHMA BANU and Mrs. AYESHA TARANUM

STUDENTS : Ms. CHETHANA R., Ms. ARPITHA GOWDA H N., Ms. HARSHITHA S., Ms. INCHARA A KUMAR

MECHANICAL ENGINEERING

33. DESIGN AND FABRICATION OF PORTABLE 3D PRINTER

- ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDE : Mr. HARSHA N

STUDENTS : Mr. ISHTIAQ AHMED, Mr. MOHAMMED SHOAI B SHARIFF, Mr. M SYED ISMAIL ZEESHAN
Mr. PRASHANTH S

34. DESIGN AND DEVELOPMENT OF LOW COST ENERGY EFFICIENT FRUIT PRESERVATION SYSTEM USING ACOUSTIC WAVES

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

GUIDE : Dr. SHARAN A S

STUDENTS : Mr. RAJSHEKHAR, Mr. RAVI PRAKASH, Mr. ABHILASH N

35. SOLAR POWERED HYBRID MULTI-MODE WATER WHEELER

- K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI

GUIDE : Prof. SANTOSH A GOUDAR

STUDENTS : Mr. MOHAN K MAKANI, Mr. PRADEEP, Mr. IRESH M BADIGER, Mr. SAGAR R KAVATAGIMATH

36. PROPORTIONAL-INTEGRAL-DERIVATIVE CONTROLLER ON BOILERS (TEMPERATURE AND FLOW CONTROL PARAMETERS)

- K.S. INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDE : Prof. UMASHANKAR M

STUDENTS : Mr. ADITHYA PAI U., Mr. AKSHAY, Mr. ANKUSH TELKAR, Mr. SHETTY AASHRAY BHUJANGA

37. PEPPER SEPARATOR AND CLEANING SYSTEM

- VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR

GUIDE : Dr. DEEPAK K.B

STUDENTS : Mr. UDAYASHANKARA K., Mr. PRASANNA KUMAR D R., Mr. ROHITH U., Mr. PRASAD

BEST PROJECTS OF THE YEAR (Biofuel projects)

SEMINAR PROJECTS - BIOFUEL

B.E Project on Biofuels

BIOTECHNOLOGY

38. A COUPLED PROCESS INTEGRATING HEAVY METAL BIOREMEDIATION AND BIODIESEL PRODUCTION USING OLEAGINOUS MICROALGAE

- NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU

GUIDES : Dr. R. S. UPENDRA and Dr. ANANDA VARDHAN H

STUDENTS : Ms. CHAITHANYA LAKSHMI, Ms. HANNA ABDUL HAKEEM, Ms. SHIVALI MUTHAPPA B.

39. PRODUCTION OF BACTERIAL CELLULOSE FROM SEWAGE AND ITS USE IN POWER GENERATION THROUGH ENZYMATIC FUEL CELL FORMULATION

- R.V. COLLEGE OF ENGINEERING, BENGALURU

GUIDES : Dr. LINGAYYA HIREMATH and Dr. S SATYANARAYANA

STUDENTS : Ms. AISHWARYA BHAT, Ms. ALYSIA M MARTINS, Ms. BRINDA V

MECHANICAL ENGINEERING

40. A STUDY ON DIESEL ENGINE USING USED COOKING OIL WITH BIOTIC ADDITIVE

- AMRITA SCHOOL OF ENGINEERING, BENGALURU

GUIDE : Prof. DIVAKAR SHETTY A.S.

STUDENTS : Mr. SRIRAM SRINIVASAN, Mr. RANGDALE ANANDARAO RAAJKUMAR

41. DESIGN AND FABRICATION OF MACHINE TO CONVERT PLASTIC INTO OIL AND GASEOUS FUEL PRODUCTION

- NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU

GUIDES : Prof. LAKSHMANA NAIK and Dr. M. S. GANESHA PRASAD

STUDENTS : Mr. SITAL KUMAR SAH, Mr. SANDEEP CHAUDHARY, Mr. SURAJ TIMILSINA, Mr. NISCHAL BHATTARAI

42. BIODIESEL FROM SAL SEED OIL

- S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAVI

GUIDE : Prof. PRASAD KALLOLIMATH

STUDENTS : Mr. IMAMUDDIN S RAHIMKHAN, Mr. ASIF M LOKAPURI, Mr. MOHAMMEDFAISAL A NANDGAD

43. PERFORMANCE CHARACTERISTICS OF METHANOL (CH₃OH) EXTRACTED FROM ATMOSPHERIC CO₂.

- VEMANA INSTITUTE OF TECHNOLOGY, BENGALURU

GUIDES : Prof. PUNEETH S. and Prof. VASANTHA V T

STUDENTS : Mr. RAKSHAN R., Mr. RAVIKIRAN N S., Mr. SHANKAR R., Mr. BINUBALACHANDRAN

M. Sc., BIOTECHNOLOGY

44. GENETIC VARIATION ANALYSIS OF MICROALGAL SPECIES UNDER NUTRIENT STRESS THROUGH MARKER ASSISTANCE FOR POTENTIAL BIOFUEL SOURCE

- INDIAN ACADEMY DEGREE COLLEGE-AUTONOMOUS, BENGALURU

GUIDES : Dr. SIBI G and Mr. SUDHAKAR MALLA

STUDENTS : Mr. SAYANTAN CHOUDHURY, Mr. GOPAL KRISHNA MAJI, Mr. PRASHANTH R., Mr. SHOAIB HAMID

M. Sc., LIFE SCIENCES

45. EFFICACY OF PONGAMIA OIL BASED SOAP AGAINST CONVENTIONAL SOAPS WITH RESPECT TO ANTIBACTERIAL ACTIVITY TO ENCOURAGE HYGIENE PRACTICE AMONG RURAL FOLK

- DEPARTMENT OF MICROBIOLOGY, DAVANGERE UNIVERSITY

GUIDE : PROF. GAYATHRI DEVARAJA

STUDENTS : Mr. SANDEEPA E., Mr. JAVALI UMESH, Mr. SUNIL KS

46. BIOETHANOL PRODUCTION PROCESS OPTIMIZATION FROM CITRUS SPS SEED OIL AND ITS CHARACTERIZATION

- GARDEN CITY COLLEGE OF SCIENCE AND MANAGEMENT STUDIES, BENGALURU

GUIDES : Dr. SHARANGOUDA J. PATIL and Dr. SADASHIV S.O.

STUDENTS : Ms. PUJA KUMARI, Ms. ARNABI MUKHERJEE, Ms. TEJESHWANI P.

MBA

47. CAPITAL BUDGETING DECISION ON INSTALLATION OF BIO-FUEL PLANT WITH SPECIAL REFERENCE TO BIO-DIESEL FROM RUBBER SEED

- SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT ADYAR, MANGALURU

GUIDE : Dr. VISHAL SAMARTHA

STUDENTS : Ms. ANUPAMA P S., Ms. PRAJWALA K., Ms. JEEVITHA

EXHIBITION PROJECTS– BIOFUEL

MECHANICAL ENGINEERING

48. DESIGN AND FABRICATION OF A CERATONIA SILIQUA DEPULP AND SEED EXTRACTION MACHINE

- JAIN INSTITUTE OF TECHNOLOGY, DAVANGERE

GUIDE : Mr. PRADEEP KUMAR ILAY

STUDENTS : Mr. SANTOSH C., Mr. RAGHUPATHI T H., Mr. SANTHOSH K., Mr. PRAVEENA M C

49. SEMI AUTOMATED HONGE SEED CLEANING MACHINE

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU

GUIDE : Dr. R. SURESH

STUDENTS : Mr. MUSTHAFEEZ MUHEEB AHAMED, Mr. L MANU, Mr. M SAGAR, Mr. MOHAMMED SABEER

50. DESIGN AND FABRICATION OF NEEM DE-PULPING MACHINE

- S.J.M. INSTITUTE OF TECHNOLOGY, CHITRADURGA

GUIDES : Prof. SRIDHAR and Mr. VISHWANATH D

STUDENTS : Mr. SHYAM SHANKAR S., Mr. SHARATH S B., Mr. TANVEER AHAMED N., Mr. HEMANTH KUMAR R

BEST PROJECTS OF THE YEAR FURTHER IMPROVEMENT / PROTOTYPE DEVELOPMENT PROJECTS

MECHANICAL ENGINEERING

51. MULTINOZZLE MANUALLY OPERATED SPRAYER

- MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOOBBIDRI

GUIDE: Prof. ELTON DYLAN NAZARETH

STUDENTS : Mr. HARSHA RAHUL CRASTA, Mr. MANJUNATH SHET, Mr. SAWOOD SHARIEF S.,
Mr. VISHAL M SUVARNA

52. SMART ARECANUT FARMING AND HARVESTING ROBOT MACHINE

- V.S.M. INSTITUTE OF TECHNOLOGY, NIPPANI

GUIDES : Prof. AMAR V. NAVALIHALKAR and Prof. RAKESHKUMAR G

STUDENTS : Mr. TUSHAR N. KAMATE, Mr. UDAY R. SOLANKURE, Mr. PAVANKUMAR LOHAR
Mr. PRASHANT D. GANTHADE