

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 – 42nd series: 2018-19
held on 26th and 27th July 2019 at

K.L.E. Dr. M.S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELAGAVI

BEST PERFORMING COLLEGE AWARD : 2018-19 : 42nd SERIES OF SPP

K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

BEST PROJECTS OF THE YEAR (Seminar projects)

AERONAUTICAL ENGINEERING

1. ELECTRICAL ENERGY HARVESTING IN AIRCRAFT BY USING CARBON FIBER BATTERY

- SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU
GUIDE : Prof. P. PURUSHOTHAM KATTI
STUDENTS : Mr. SHEKHARPRASAD J N RAI, Mr. ABHINAND P., Mr. DIBU P. K., Mr. AMARESH

BIOTECHNOLOGY.

2. CHARACTERISATION OF PLANT RIBOSOMAL INACTIVATING PROTEINS AND THEIR POSSIBLE ROLE IN CANCER CELL LINES

- DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU
GUIDES : Prof. GOVINDAPPA M., Prof. N. RAJESWARI
STUDENTS : Mr. BHUSHAN BAGAL, Mr. NARESH KUMAR TALWAR, Ms. TEJASWINI VENKATESAN, Ms. VINTA LAKSHMI USHASWINI

CHEMICAL ENGINEERING

3. EXTRACTION OF LITHIUM AND COBALT FROM LITHIUM-ION BATTERIES

- K.L.E. Dr. M.S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, UDYAMBAG, BELAGAVI
GUIDE : Dr. UMESH B DESHANNAVAR
STUDENTS : Mr. SURAJ SHET, Ms. PADMAJA KULKARNI, Mr. SHAWN SEQUEIRA GEORGE, Ms. VIEGAS SHANON DO ROSARIO

CIVIL ENGINEERING

4. QUANTUM OF SEDIMENT SINK AND SCOUT AND SHORE FACE MANAGEMENT STRATEGIES. A CASE STUDY OF KUNDAPURA SHORELINE, UDUPI DISTRICT, KARNATAKA

- S.D.M. COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD
GUIDE : Dr. V.S HEGDE
STUDENTS : Mr. SHRIKANT G. SHET, Mr. KIRAN P. M., Mr. APOORV KALAL, Mr. RAGHAVENDRA T

5. AN EXPERIMENTAL STUDY ON PERVIOUS CONCRETE- A SUSTAINABLE CHOICE IN CIVIL ENGINEERING

- G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE
GUIDES : Mr. SWAMY L V. and Mr. MOHAMMED YASEEN
STUDENTS : Ms. VINUTHA M C., Mr. SHREYANSH N RAWAL, Mr. SIDDESH T K. and Mr. SARVASH SHADAAB S M

6. A MULTI OBJECTIVE TRANSIT TRIP ITINERARY PLANNING SYSTEM USING GIS FOR MANGALORE CITY

- SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU
GUIDE : Mr. CHETHAN KUMAR N T
STUDENTS : Mr. RAJMUNNI HOMBAL, Mr. GREESHMA CHANDRAN, Mr. MOHAMMED MUSTAFA and Mr. ZAINAB THANSEEHA

7. MEASUREMENT OF EVAPOTRANSPIRATION FOR IRRIGATION SUITABILITY (DATA COLLECTION, FIELD SIMULATION AND MODELLING)

- VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR
GUIDES : Dr. SANDEEP J NAYAK and Prof. PRASHANTHA
STUDENTS : Ms. SHARANYA S., Ms. PRUTHVI R., Ms. PRATHIJNA M SHETTY K., Ms. RAKSHITHA B

COMPUTER SCIENCE AND ENGINEERING

8. CROP YIELD AND RAINFALL PREDICTION IN TUMAKURU DISTRICT USING MACHINE LEARNING

- CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, TUMAKURU
GUIDE : Mr. GIRISH L
STUDENTS : Mr. GANGADHAR S., Mr. BHARATH T R., Mr. ABHISHEK K T., Mr. BALAJI K S

ELECTRONICS AND COMMUNICATION ENGINEERING

9. CLASSIFICATION OF LUNG DISEASES AND DETECTION OF LUNG CANCER USING IMAGE PROCESSING, RASPBERRY PI AND IOT

- K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI
GUIDE : Prof. PRAVEEN GURAV
STUDENTS : Ms. SUPRITA AVANNA KADAGOL, Ms. KANASE POOJA SATISH, Ms. PRIYANKA AJIT KHOT, Ms. PADMASHREE B PATIL

INFORMATION SCIENCE ENGINEERING

10. BIRD CENSUS USING DIGITAL PHOTOGRAPH

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU
GUIDE : Dr. RUDRAMURTHY M S
STUDENTS : Mr. ANURAG KUMAR, Mr. RAHUL P., Ms. NAVYA U

MECHATRONICS

11. PRODUCTION OF INK AND PAINT PRODUCTS FROM INTERNAL COMBUSTION ENGINE EXHAUST SOOT

- MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOOBBIDRI
GUIDE : Mrs. RUMANA ALI
STUDENTS : Mr. MOHAMMAD ARZOO, Mr. MOHAMMED ZAKARIYA, Mr. ASWANTH M. V., Mr. RIFAD PALLIKKANDI

MECHANICAL ENGINEERING

12. EXPERIMENTAL INVESTIGATIONS ON AI₂O₃ AND BOTTOM ASH REINFORCED WITH ALUMINIUM METAL MATRIX COMPOSITES FOR STRUCTURAL APPLICATIONS

- BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT, BALLARI
GUIDE : Mr. G. RAGHAVENDRA SETTY
STUDENTS : Mr. SHAMSHUDDIN, Mr. SHAIK SAMEER BASHA, Mr. AJAY B.

13. FABRICATION OF LOW COST HIGH EFFICIENT COMPOSITE USING GARMENT WASTES FOR INDOOR AND OUTDOOR APPLICATIONS

- HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI
GUIDE : Prof. S. R. KULKARNI
STUDENTS : Mr. MALLIKARJUN B AMMANAGI, Mr. MAHANTESH ANGADI, Mr. KARTHIK B C., Mr. KIRAN MANGALWEDE

14. ESTIMATION OF EXHAUST EMISSION PARAMETERS OF 4 STROKE DIESEL ENGINE USING WASTE COOKING OIL DISPERSED WITH NANOMATERIAL AS A FUEL

- SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA
GUIDES : Dr. SYED ABBAS ALI and Mr. ASIF IQBAL DODDAMNI
STUDENTS : Mr. TOUSHIP SATAREKAR, Mr. MOHAMMED SHOIAB KAMANGHAR
Mr. UMARPAROOK BAGAVAN, Mr. MAHAMMEDHANIF YENDIGERI

NANOTECHNOLOGY

15. NANO VESICLES FOR DRUG DELIVERY SYSTEM AND DEVICE

- SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU
GUIDE : Dr. PRASAD P
STUDENTS : Ms. SREELAKSHMI S K., Mr. NIDHIN P

BEST PROJECTS OF THE YEAR (Exhibition projects)

AERONAUTICAL ENGINEERING

16. DESIGN AND FABRICATION OF FIXED WING UAV OPERATING IN AIR AND UNDERWATER ENVIRONMENT

- NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDE : Mr. VINOD L
STUDENTS : Mr. RAJATH SHETTY, Mr. PAVAN KALYAN V., Mr. PEDDIREDDY OMKARAM REDDY, Mr. MADHU PUJAR

BIOMEDICAL ENGINEERING

17. CONTROL AND DEVELOPMENT OF PROSTHETIC ARM

- K.L.E. Dr. M.S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, UDYAMBAG, BELAGAVI
GUIDE : Prof. GIRIDHAR HEBBALE
STUDENTS : Ms. PRANALI SHIROLKAR, Ms. RHEMA KIRBY, Mr. AJINKYA VOLVOIKAR, Ms. DEEPALI NAIK

BIOTECHNOLOGY

18. DESIGN AND FABRICATION OF PILOT SCALE BIOREACTOR FOR DEVELOPMENT OF PVA HAEMOSTATIC SCAFFOLDS

- ACHARYA INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDE : Dr. SUNEETHA T B
STUDENTS : Mr. SURESH KUMAR C., Ms. KASTURI MUKHERJEE, Ms. TEJASWINI M ATTUR

19. DEVELOPMENT OF ECO FRIENDLY, COST EFFECTIVE AND BIODEGRADABLE SANITARY NAPKINS

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
GUIDES : Dr. MANJUNATH N.S. and Dr. B.E.RANGASWAMY
STUDENTS : Ms. T.SIMRAN, Ms. SIREESHA.S.S., Mr. VINAYA.H.P., Mr. SHIVALINGAYYA.R.MATHAD

CIVIL ENGINEERING

20. STUDY ON REPLACEMENT OF CRUSHED STONE AGGREGATE WITH SYNTHESIZED GEO POLYMER AGGREGATE

- DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU
GUIDES : Mr. K ARJUN and Mr. SUNIL C L
STUDENTS : Mr. OWIAS AHAMED, Mr. NITIN ALMAJE, Mr. PRAKHAR BARANWAL, Mr. SOURABH M K

21. MODEL STUDY ON REDUCTION OF RESERVOIR EVAPORATION USING MECHANICAL COVERS

- K.L.E. Dr. M. S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, UDYAMBAG, BELAGAVI
GUIDE : Dr. RAJKUMAR V. RAIKAR
STUDENTS : Mr. ADITYA G. KUMBAR, Ms. DANESHWARI KAGATIKAR, Ms. ASHWINI MUDIGOUDAR, Ms. PRIYA DHOTRE

COMPUTER SCIENCE AND ENGINEERING

22. SUPER BHEEM -THE LIFE SAVING IDELOGY

- RAJIV GANDHI INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDES : Mrs. VANDANA R., and Mrs. PRATHIMA .V.R
STUDENTS : Ms. RAMYASHREE M., Mr. SYED ZABIULLA, Ms. TASMIYA KOUSAR and Ms. VEENA GUNDAM

ELECTRICAL AND ELECTRONICS ENGINEERING

23. EYE BALL MOTION CONTROLLED WHEELCHAIR FOR TETRAPLEGIA

- A.T.M.E. COLLEGE OF ENGINEERING, MYSURU
GUIDE : Mrs. POOJA. M
STUDENTS : Ms. SWATHI L., Mr. MAHENDRA. K. P., Ms. PRIYANKA. S

24. DESIGN OF WATER WASTE COLLECTOR BY SEABIN

- A.T.M.E. COLLEGE OF ENGINEERING, MYSURU
GUIDE : Mr. VINOD KUMAR P
STUDENTS : Mr. HEMANTH KUMAR K., Ms. FARIYA SHARIFF, Ms. KAUSAR AFREEN, Mr. KIRAN KUMAR M N

ELECTRONICS AND COMMUNICATION ENGINEERING

25. SMART NAVIGATION DEVICE

- ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDE : Mrs. SAMPADA HK
STUDENTS : Mr. VIKRAM POLE, Mr. SHARATH SANKAR, Mr. VISHWANATH J H., Mr. Y G SHISHIR

26. GESTURE CONTROL MULTIFUNCTION ROBOTIC LIMB USING MUSCLE SENSOR

- GLOBAL ACADEMY OF TECHNOLOGY, BENGALURU
GUIDE : Mrs. ANITHA S SASTRY
STUDENTS : Ms. ARJUN A., Mr. ARAVIND KUMAR S., Mr. A L SANTOSH KUMAR, Mr. PRAKASH M

27. CENTER PIVOT IRRIGATION SYSTEM

- BASAVESHWARA ENGINEERING COLLEGE, BAGALKOT
GUIDES : Dr. J.D.MALLAPUR, Prof. S.C.HIREMATH
STUDENTS : Ms. JYOTI HIREKUMBI, Ms. DANAMMA SAJAAN, Ms. LAXMI METI, Mr. SUMAN KENDHULI

28. NARRATIVE SYSTEM FOR VISUALLY IMPAIRED

- K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI
GUIDE : Mr. ARUN A BADIGER
STUDENTS : Ms. AFIFA ANJUM DODDAMANI, Ms. AFREEN M SHAIKH, Ms. DHANASHREE B PAI, Ms. AZIMUNISSA M

29. DREAM KIT - INTERNET OF THINGS BASED HARDWARE MODULAR KIT FOR EASY PROTOTYPING

- SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU
GUIDE : Mr. SAVIDHAN SHETTY C S
STUDENTS : Mr. AASHISH U S., Mr. DEEKSHITH, Ms. KHADEEJATH JASNA K J., Ms. PRAJNA K

MECHATRONICS ENGINEERING

30. REFRESHABLE BRAILLE READER FOR THE VISUALLY IMPAIRED

- ACHARYA INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDE : Mr. SANDEEP K
STUDENTS : Mr. CHINMAY C VERNEKAR, Mr. PRASHANT MALLA, Mr. PRUTHVI Y., Mr. SACHIN M

INDUSTRIAL ENGINEERING AND MANAGEMENT

31. OPTIMIZATION OF DISTRIBUTION CHANNEL IN DAIRY INDUSTRY USING E-CRATES

- DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU
GUIDE : Prof. S M RAJESH
STUDENTS : Mr. PAVAN KUMAR PRAJAPATI, Ms. PRAGATHI C ACHARYA

MECHANICAL ENGINEERING

32. DEVELOPMENT OF BIO DEGRADABLE DIAPER FOR HYGIENE APPLICATIONS

- B.N.M. INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDE : Prof. HEMANTH KUMAR C
STUDENTS : Mr. LOHITHKUMAR SHETTY M., Mr. KARTHIK, Mr. HARIHARAN R N., Mr. KISHAN R.

33. ENERGY CONSERVATION BY BED AIR CONDITIONING SYSTEM

- GIRIJABAI SAIL INSTITUTE OF TECHNOLOGY, KARWAR
GUIDE : Prof. SHASHANK DIVGI
STUDENTS : Mr. SAHIL VERNEKAR, Mr. PRATHAMESH NAIK, Mr. NAGARAJ KOTHARKAR, Mr. JAVER DIAS

34. THERMOELECTRIC POWER GENERATION FROM EXHAUST HEAT

- K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAVI
GUIDE : Dr. SACHIN C KULKARNI
STUDENTS : Mr. SANKETH SALIMATH, Ms. SAKSHI KHANDEKAR, Mr. SHRAVANKUMAR KAMBLE, Mr. ADARSH PATIL

35. AN EXPERIMENTAL INVESTIGATION ON EFFECT OF USING NEAR DRY MACHINING FOR VERTICAL MACHINING CENTRE.

- K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAVI
GUIDE : Mr. HARSHIT B KULKARNI
STUDENTS : Mr. AKSHAYKUMAR N PATIL, Mr. HARISH BOMMANAIK, Mr. AKSHAYA A PATIL, Mr. GIRISH M PARAPPANAVAR

36. DESIGN AND DEVELOPMENT OF AGRICOPTER DRONE

- MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOOBBIDRI
GUIDE : Mr. RUEBEN
STUDENTS : Mr. BHARGAVA K., Mr. ASHRITH, Mr. KADABAGERI MANJUNATH, Mr. SATWIK POOJARY

37. DESIGN AND FABRICATION OF ARTICULATED 3D PRINTER

- SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
GUIDE : Dr. M. ELANGO VAN
STUDENTS : Mr. CHETAN GOWDA H S., Mr. MANISH RAO S., Mr. ROHITH J., Mr. POORVIK S

38. FABRICATION AND EXPERIMENTATION OF MAGNETHORHEOLOGICAL BRAKING SYSTEM

- SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU
GUIDE : Mr. VENKATESH RAO S N
STUDENTS : Mr. SHREYAS, Mr. VIKRAM, Mr. PRAJWAL RANJAN KANCHAN

39. FABRICATION OF UNMANNED ROBOTIC PESTICIDE SPRAYER AND HARVESTER FOR ARECANUT PLANTATION

- VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR
GUIDE : Dr. DEEPAK K B
STUDENTS : Mr. DEVIPRASAD B., Mr. CHARAN B L., Mr. GEETHESH R B., Ms. PRIYANKA R PRABHU

TELECOMMUNICATION ENGINEERING

40. SMART HYDROPONICS

- K.S. INSTITUTE OF TECHNOLOGY, BENGALURU
GUIDE : Mr. SENTHIL BABU K
STUDENTS : Ms. B V NAVYA, Ms. ARCHANA P S., Ms. ABHILASHA H V

BEST PROJECTS OF THE YEAR (Biofuel projects) SEMINAR PROJECTS - BIOFUEL

BE, BIOTECHNOLOGY

41. BIOPLASTIC EXTRACTION FROM WASTE GREASE PRODUCED IN INDUSTRIES USING AS GLYCEROL AS A SUBSTRATE

- SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
GUIDES : Mr. PRASHANTH KUMAR H P., and Ms. SHOBHA G
STUDENTS : Ms. DEBIKA CHAKRABARTY, Ms. DISHA D B., Ms. KEERTHANA N., Ms. B VARSHINI

M.Tech , BIOTECHNOLOGY

42. DESIGN AND FABRICATION OF ENZYME BASED BIOSENSOR KIT FOR THE DETECTION OF FORMALIN ADULTERATION IN PRESERVED FOODS

- R.V. COLLEGE OF ENGINEERING, BENGALURU
GUIDES : Dr. LINGAYYA HIREMATH and Mrs. M RAJESWARI
STUDENT : Ms. ANUBHA

MECHANICAL ENGINEERING

43. EFFECT OF INJECTION PRESSURE AND INJECTION TIMING (IT) AND EGR ON THE PERFORMANCE AND EMISSION OF DIESEL ENGINE OPERATED WITH TALLOW OIL METHYL ESTER (TOME)

- HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI
GUIDES : Prof. BM DODAMANI
STUDENTS : Mr. NAGARAJ BADIGER, Mr. MANJUNATH D SHIKKERI, Mr. MILIND KAMBLE

44. BIO -CNG PRODUCTION , BOTTLING AND UTILIZATION FOR CI ENGINE

- P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA
GUIDES : Dr. BASAVARAJAPPA Y H
STUDENTS : Mr. SWAROOP N., Mr. DILIP KUMAR B N., Mr. VIJAY T V., Mr. DARSHAN B M

M. Sc., BIOTECHNOLOGY

45. BIOETHANOL PRODUCTION FROM GREEN COCONUT SHELL

- GARDEN CITY UNIVERSITY, BENGALURU
GUIDES : Dr. PREMA KULKARNI and Dr. NAGAMANI J E
STUDENTS : Ms. CHAHAT SHARMA, Ms. SHALMALI CHATTERJEE

46. PRODUCTION OF LIPASE BY SOLID-STATE FERMENTATION OF BIOFUEL SEED CAKES AND ITS USE AS A BIOCATALYST IN BIODIESEL PRODUCTION

- MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN (AUTONOMOUS), BENGALURU
GUIDES : Dr. S.SARASWATI and Dr. SUNEETHA P
STUDENTS : Ms. YASHASWINI N., Ms. AASHRUTHA R., Ms. SUREKHA A.HIREMATH

M. Sc., LIFE SCIENCES

47. EFFICACY OF PONGAMIA OIL AND HERBAL BASED FORMULATION SOAP AGAINST CONVENTIONAL - TO ENCOURAGE HYGIENE PRACTICE AMONG RURAL FOLK FOR ENTEROPHATHOGENS

- DEPT OF MICROBIOLOGY, DAVANGERE UNIVERSITY
GUIDE : Dr. GAYATHRI DEVARAJA
STUDENTS : Mr. PONNANNA M B., Mr. PRASHANTH MANJAPPA KUSUGUR

MBA

48. DEVELOPMENT OF SUSTAINABLE SUPPLY CHAIN MODEL FOR BIODIESEL MANUFACTURING FROM USED COOKING OIL IN BANGALORE CITY.

- M.S. RAMAIAH INSTITUTE OF TECHNOLOGY
GUIDE : Dr. Y.M. SATISH
STUDENTS : Ms. C. VARSHA., Mr. ROHIT K., Mr. VENKATESH N., Mr. SURYA M

EXHIBITION PROJECTS – BIOFUEL

BIOTECHNOLOGY

49. PROCESS INTENSIFICATION OF BIOETHANOL PRODUCTION THROUGH SIMULTANEOUS SACCHARIFICATION & EXTRACTIVE FERMENTATION

- N.M.A.M. INSTITUTE OF TECHNOLOGY, NITTE
GUIDES : Mr. VENKATESH KAMATH H. and Dr. C. VAMAN RAO
STUDENTS : Ms. INCHARA CRASTA, Ms. ASHWINI G. SHENOY, Ms. SOUMYA M. RAO, Ms. UDBHAVI K.B.

MECHANICAL ENGINEERING

50. PONAGAMIA SEED HARVESTER

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU
GUIDE : Dr. R SURESH
STUDENTS : Mr. NAVEEN REDDY, Ms. LIKHITHA BC

* ~ * ~ *