

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science, Bangalore - 560 012

List of projects selected for “PROJECT OF THE YEAR” award under Biofuel during the **Seminar and Exhibition of Student Projects – 35th SERIES: 2011-12**

held on 13th and 14th July 2012 at

SHREE DHARMASTHALA MANJUNATHESHWARA INSTITUTE OF TECHNOLOGY, UJIRE

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

BEST PROJECTS OF THE YEAR

B.E Project

MECHANICAL ENGINEERING

1. UTILIZATION OF PONGAMIA POD SHELLS AND GLYCERINE WASTE FOR PRODUCTION OF FUEL BRIQUETTES

– H.M.S. INSTITUTE OF ENGINEERING, TUMKUR

GUIDE : MR.RAVICHANDRA.P.S

STUDENTS : NAVEEN S, NISHANTH B. M, SHIVAKUMAR R and YUVARAJ H. S.

2. DESIGN AND FABRICATION OF PONGAMIA DECORTICATOR AND OPTIMIZATION OF BIO-DIESEL PRODUCTION VIA ALKALI CATALYZED METHANOLYSIS USING OIL EXTRACTED FROM DECORTICATED SEEDS OF *PONGAMIA PINNATA*

– SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

GUIDES : DR. G. PANDURANGA MURTHY and VASUDEVA MURTHY

STUDENTS : SANMATHI K, SANGEETHA M, HARSHITH S, KIRAN K and MEDA KARAN VENKATESH

M.Tech. Project

ENVIRONMENTAL ENGINEERING

3. BIOMETHANATION OF EFFLUENT FROM DESICCATED COCONUT INDUSTRY

– BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

GUIDES : DR. S. MANJAPPA & DR. H. B. ARAVINDA

STUDENT : VINAYAK BANAKAR

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List of projects selected for “PROJECT OF THE YEAR” award under Biofuel during the **Seminar and Exhibition of Student Projects – 36th SERIES: 2012-13**

held on 30th and 31st August 2013 at

ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELGAUM

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

BEST PROJECTS OF THE YEAR

B.E Project

BIOTECHNOLOGY

4. 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 and Ms. GANAPARTI SUJANA

MECHANICAL

5. 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 and
Mr. ARUNKUMARA H N

M.Sc., Project

MICROBIOLOGY

6. EFEFCT OF PONGAMIA CAKE ON BENEFICIAL SOIL MICROORGANISMS IN ARECA NUT PLANTATION

COLLEGE : DAVANAGERE UNIVERSITY, DAVANAGERE

GUIDE : Dr. GAYATHRI DEVARAJA

STUDENTS : Ms. SHIVALI U JOLAD and Ms. GEETHA PRAKASH D

M.Tech. Project

MECHANICAL ENGINEERING

7. 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 and Dr. S SHANMUKHAPPA

STUDENTS : Mr. SACHIN MURJAPURE

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List of projects selected for “PROJECT OF THE YEAR” award under Biofuel during the **Seminar and Exhibition of Student Projects – 37th SERIES: 2013-14**

held on 28th and 29th July 2014 at

B. V. BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

BEST PROJECTS OF THE YEAR

B.E Project

CHEMICAL ENGINEERING

8. “MANUFACTURE OF C-11 COMPOUNDS FROM CASTOR OIL”

COLLEGE : DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE
GUIDE : PROF. SURESH C. MAIDARGI
STUDENTS : B. R. KEERTHI, UJWALA K, SANTOSH H B and HARSHA

MECHANICAL ENGINEERING

9. “STUDIES ON EFFECT OF BIODEISEL ON THE ENGINE CRANKCASE LUBRICANT”

COLLEGE : NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BANGALORE
GUIDE : Dr. N. KAPILAN
STUDENTS : BHAVYA SHREE M, CHAITRA K N and NETHRA M

10. “BIOMASS GASIFIER STOVE USING AGRICULTURAL WASTE (CROP RESIDUE)”

COLLEGE : SHAIKH COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM
GUIDE : PROF. VEERANNA D. K
STUDENTS : VIKAS A BHAVI, SATISH G. KALAKERI, SADANAND I. KAMMAR and SHRISHAIL M. NARAGATTI

BIOTECHNOLOGY ENGINEERING

11. “PRODUCTION OF BIOFUEL FROM SOIL AND WASTE WATER ALGAE USING VERTICAL REACTOR SYSTEM”

COLLEGE : SAPTHAGIRI COLLEGE OF ENGINEERING, BANGALORE
GUIDE : PROF. VINUTHA MOSES AND PROF. SOUMYA C
STUDENTS : PRUTHVI AVADHANI H A and R VIDHYA

M.Sc., Project

BIOTECHNOLOGY

12. "HEAVY METAL INDUCTION FOR ENHANCED LIPID PRODUCTIVITY IN FRESH WATER MICROALGAE"

COLLEGE : INDIAN ACADEMY DEGREE COLLEGE, BANGALORE
GUIDES : DR. SIBI G
STUDENTS : ANURAAG T S, PRANAV KUMAR MISHRA and GEETA BAFLIA

13. "NUTRITIONAL ANALYSIS OF PONGAMIA SEED CAKE FOR ANIMAL SUPPLEMENT"

COLLEGE : MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN, BANGALORE
GUIDES : MRS. BABITHA B AND DR. SAVITHA G
STUDENTS : RABIA ZAIB, PUSHPALATHA M, ARPITHA JADE and AMRUTHA P

M.Tech. Projects

THERMAL POWER ENGINEERING

14. "INVESTIGATION ON CONVERSION OF FLOWER WASTES INTO BIO-ETHANOL AND PERFORMANCE EVALUATION ON SINGLE CYLINDER IC ENGINE"

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
GUIDES : DR. S KUMARAPPA AND DR. B M KULKARNI
STUDENTS : VEERABHADRAPPA C BALIKAI

15. "STABILITY ANALYSIS OF BIODIESEL, ETHANOL AND DIESEL BLENDS AND PERFORMANCE TESTING OF CI ENGINE WITH THESE STABLE BLENDS"

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
GUIDES : MR. S RAJESH
STUDENTS : VICKY SINGHA

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List of projects selected for “PROJECT OF THE YEAR” award under Biofuel during the Seminar and Exhibition of Student Projects – 38th SERIES: 2014-15 held on 20th and 21st August 2015 at SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

BEST PROJECTS OF THE YEAR

B.E Project

16. 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 and DR. PRATIMA KHANDELWAL

STUDENTS : MS. PRATIBHA K., MS. SMITHA K., MS. MOUNISHA R., MS. SRUJANA K N

17. 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.

18. 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

19. 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

20. 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

21. 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. Project

22. 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

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List of projects selected for “PROJECT OF THE YEAR” award under Biofuel during the Seminar and Exhibition of Student Projects – 39th SERIES: 2015-16 held on 19th and 20th August 2016 at

BLDEA’s Vachana Pitamaha Dr. P. G. Halakatti College of Engineering & Technology, Vijayapura

The Project details can be obtained from <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>

BEST PROJECTS OF THE YEAR

SEMINAR PROJECTS

B.E Project

23. [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
24. [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
25. [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
26. [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

27. [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

28. 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

29. 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

30. 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

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