

# **Karnataka State Council for Science & Technology**

Indian Institute of Science, Bangalore - 560 012

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## **P.D.A College of Engineering, Gulbarga**

**Seminar-cum-Exhibition of Student Projects Programme**

**29<sup>th</sup> Series: 2005-2006 on 29 & 30 September, 2006**

**at P.D.A College of Engineering, Gulbarga**

### **PROGRAMME**

**Friday, The 29th September 2006**

#### **INAUGURAL FUNCTION**

<b>0830 – 1000 Hrs</b>	<b>REGISTRATION</b>
<b>1000 – 1005 Hrs</b>	<b>INVOCATION</b>
<b>1005 – 1010 Hrs</b>	<b>WELCOME ADDRESS</b> Dr. V. D. Mytri Principal, P.D.A College of Engineering, Gulbarga
<b>1010 – 1015 Hrs</b>	<b>INTRODUCTORY REMARKS</b> Prof. M. K. Surappa Secretary, KSCST, Bangalore
<b>1015 – 1045 Hrs</b>	<b>INAUGURAL ADDRESS</b> Prof. P. V. Indiresan Former Director, Indian Institute of Technology, Chennai
<b>1045 – 1055 Hrs</b>	<b>GUEST OF HONOUR AND RELEASE OF SOUVENIR</b> Dr. (Mrs) C. P. Sehgal Advisor, Department of Science and Technology Government of India, New Delhi
<b>1055 – 1105 Hrs</b>	<b>PRESIDENTIAL ADDRESS</b> Sri Basavaraj S. Bhimalli President, HKE Society, Gulbarga
<b>1105 – 1110 Hrs</b>	<b>VOTE OF THANKS</b> Dr. Hareesha Iddya Executive Secretary, KSCST, Bangalore
<b>1110 – 1130 Hrs</b>	<b>INAUGURATION OF EXHIBITION</b>
<b>1200 – 1800 Hrs</b>	<b>TECHNICAL SESSIONS</b>

# **TECHNICAL SESSIONS**

**Friday, September 29, 2006**

**1200 Hrs – 1300 Hrs TECHNICAL LECTURE - 1**

By Prof. T. G. Sitharam  
Department of Civil Engineering, Indian Institute of Science  
Bangalore 560012

**Topic : "Seismicity of Peninsular India and A Case Study of  
Microzonation and Site Response for Bangalore"**

## **SEMINAR**

**SESSION 1:**

**Friday, September 29, 2006**

**VENUE :** HALL NO. 1 (Lecturer Hall L-22,  
Near Chamber of HOD of Electrical Engineering)

**TIME :** 14.00 – 16.45 Hrs.

### **BIOMEDICAL ENGINEERING**

1. ERYTHROCYTE SHAPE INVESTIGATION UNDER NORMAL AND PATHOLOGICAL CONDITIONS USING IMAGE PROCESSING  
– BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE

### **BIOTECHNOLOGY ENGINEERING**

2. CLEANER TECHNOLOGY FOR THE TREATMENT OF DISTILLERY WASTE (SPENT WASH)  
– BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE
3. LARVAECIDAL EFFECTS OF AQUEOUS EXTRACTS OF PLANTS  
– NMAM INSTITUTE OF TECHNOLOGY, NITTE
4. BIOFUELS - THE ENERGY FOR PRESENT AND FUTURE  
– NMAM INSTITUTE OF TECHNOLOGY, NITTE

### **ENVIRONMENTAL ENGINEERING**

5. REDUCTION OF STRENGTH OF DOMESTIC SEWAGE USING AGAVE SISALANA AS A FILTER MEDIA  
– ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR
6. TREATABILITY STUDIES OF ANIMAL AND CAGE WASH WATER FOR RECYCLE AND REUSE - A CASE STUDY IN SRI CHAMARAJENDRA ZOOLOGICAL GARDEN, MYSORE  
– S.J.C.E, MYSORE

7. MICROTREATMENT OF MUNICIPAL SOLID WASTE

- VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSORE

**SESSION 2:**

**Friday, September 29, 2006**

VENUE : HALL NO. 2 (Architecture Studio, in Architecture Block)

TIME : 14.00 – 16.45 Hrs.

**CIVIL ENGINEERING**

8. MIX DESIGN FOR SELF-COMPACTING CONCRETE

- ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR

9. SHEAR STRENGTH CHARACTERISTICS OF BRICK MASONRY

- BANGALORE INSTITUTE OF TECHNOLOGY, BANGALORE

10. CRITICAL REAPPRAISAL OF DIFFERENT METHODS OF ASSESSMENT OF WORKABILITY OF CEMENT COMPOSITES

- BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE

11. WORKABILITY OF CEMENT BASED COMPOSITES

- BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE

12. EXPERIMENTAL STUDY OF GAP GRADED CEMENT ASPHALT CONCRETE FOR HIGHWAY PAVEMENT

- BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT

13. STUDY OF VMA ON SELF COMPACTING CONCRETE

- BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT

14. AN EXPERIMENTAL STUDY ON MIX PROPORTIONING OF SELF COMPACTING CONCRETE BY DIFFERENT MIX PROCEDURES

- BMS COLLEGE OF ENGINEERING, BANGALORE

15. STUDIES ON STRENGTH AND BEHAVIOUR OF COMPOSITE TUBES FOR EARTHQUAKE RESISTANT INDUSTRIAL STRUCTURES

- GHOSIA COLLEGE OF ENGINEERING, RAMANAGARAM

16. A STUDY OF ROUTE PLANNING FOR EFFICIENT SCHEDULING OF CITY BUSES IN HASSAN CITY

- MALNAD COLLEGE OF ENGINEERING, HASSAN

17. IMPROVING THE STRENGTH OF SUB-GRADE USING BUILDING DEBRIS

- NATIONAL INSTITUTE OF ENGINEERING, MYSORE

18. FEASIBILITY STUDIES ON ROOF TOP RAINWATER HARVESTING AT N.E.T CAMPUS, NITTE & REHABILITATION STUDIES OF A TRADITIONAL RAINWATER HARVESTING STRUCTURE

- NMAM INSTITUTE OF TECHNOLOGY, NITTE

19. ANALYSIS OF STABILITY OF SLOPES AT PERNEM STATION, GOA

- SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD

20. A STUDY OF PHYSICAL PROPERTIES OF FINE-GRAINED SOILS UNDER DIFFERENT ENVIRONMENTAL CONDITIONS
  - S.J.C.E, MYSORE
21. A STUDY ON THE USE OF RICE HUSK ASH IN CONCRETE FROM SUSTAINABILITY CONSIDERATION
  - S.J.C.E, MYSORE
22. HIGH VOLUME FLY-ASH CONCRETE - A BOON IN BULK UTILISATION OF INDUSTRIAL WASTE
  - K.L.E.S COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
23. EVALUATION OF TREATMENT PLANT EFFICIENCY USING TOXICITY INDEX – A CASE STUDY OF TEXTILE INDUSTRIES - STUDY OF TEXTILE INDUSTRIES
  - BMS COLLEGE OF ENGINEERING, BANGALORE

**SESSION 3:**

**Friday, September 29, 2006**

VENUE : HALL NO. 3 (Lecturerer Hall L-9, Beside Chamber of  
HOD of Department of Maths in the main building)

TIME : 1400 – 1645 Hrs.

**COMPUTER SCIENCE AND ENGINEERING**

24. 24/7 SMS SENSOR AND SMART QUERYING
  - BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE
25. NETWORK ANALYZER
  - DR AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE
26. DISTRIBUTED ROUTING WITH MPLS
  - DR AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE
27. "NETMON" - NETWORK SERVER MONITORING SOFTWARE
  - GOGTE INSTITUTE OF TECHNOLOGY, BELGAUM
28. ENERGY AWARE ROUTING IN WIRELESS SENSOR NETWORKS USING MOBILE AGENTS
  - K.L.E.S COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
29. E-CRYPT MAIL SERVICE
  - SIR M. V. I. T, BANGALORE
30. AN EFFICIENT SKEW ESTIMATION FOR SOUTH INDIAN SCRIPT WITH SOME NOVEL APPROACHES
  - BAHUBALI COLLEGE OF ENGINEERING, SHRAVANAGELAGOLA
31. PROJECT FM<sup>2</sup>
  - BANGALORE INSTITUTE OF TECHNOLOGY, BANGALORE
32. "ARTH" – A TEXT TO SPEECH SYTHESIZER FOR HINDI ON LINUX
  - KLES COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM

- 33. BUG TRACING RTMS IN HORTICULTURE AUTOMATION
  - KVG COLLEGE OF ENGINEERING, SULLIA
- 34. DEVELOPMENT OF API FOR USING SMS AS TRANSPORT LAYER
  - BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE

### **TELECOMMUNICATION ENGINEERING**

- 35. GSM CONTROLLED BANK LOCKERS
  - K.L.E.S COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
- 36. VEHICLE DETECTION AND CLASSIFICATION USING MAGNETIC SENSORS
  - COORG INSTITUTE OF TECHNOLOGY, PONNAMPET
- 37. WIRELESS TELEMETRY
  - BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYAN

### **SESSION 4:**

**Friday, September 29, 2006**

VENUE : HALL NO. 4 (Mechanical Engineering Department Seminar Hall L-16  
beside Chamber of HOD of Mech. engg., Main Building)

TIME : 1400 – 1645 Hrs.

### **ELECTRONICS AND COMMUNICATION ENGINEERING**

- 38. REAL TIME DATA ACQUISITION USING BLUETOOTH
  - BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE
- 39. REMOTE SURVEILLANCE VEHICLE
  - COORG INSTITUTE OF TECHNOLOGY, PONNAMPET
- 40. NAVIGATION FOR BLIND
  - K.L.E.S COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
- 41. SMART PLANTER
  - K.L.E.S COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
- 42. ROBO MINE ROVER
  - K.L.E.S COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
- 43. ON-LINE SECURED QUESTION PAPER USING GSM
  - KVG COLLEGE OF ENGINEERING, SULLIA
- 44. REMOTE MESSAGE DISPLAY SYSTEM
  - SJC INSTITUTE OF TECHNOLOGY, CHIKKABALLAPUR
- 45. DETECTION OF EPILEPTIC SEIZURE USING DSP TECHNIQUES
  - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA
- 46. SPEECH BASED CONTROL OF WHEEL CHAIR FOR THE HANDICAPPED
  - ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR
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47. CLASSIFICATION OF SOYABEAN SEEDS BY COLOUR IMAGE ANALYSIS
  - BVB COLLEGE OF ENGINEERING & TECHNOLOGY, HUBLI
48. PATIENT CLINICAL INFORMATION STORING DEVICE USING SMART CONTROLLER
  - GOGTE INSTITUTE OF TECHNOLOGY, BELGAUM
49. UNIVERSAL HELPING AID FOR PHYSICALLY CHALLENGED
  - KLES COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
50. INTELLIGENT VEHICLE MONITORING AND CONTROL SYSTEM USING GSM TECHNOLOGY
  - KLES COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
51. SMART WHEEL CHAIR
  - KVG COLLEGE OF ENGINEERING, SULLIA
52. WIRELESS KILOWATT-HOUR METER FOR POWER SUPPLYING COMPANIES
  - MVJ COLLEGE OF ENGINEERING, BANGALORE
53. DIGITAL SPEECH SCRAMBLER
  - BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYAN
54. ANTI VEHICLE THEFTING AND TRACKING SYSTEM
  - HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI, BELGAUM

**1700 Hrs – 1800 Hrs**

**TECHNICAL LECTURE - 2**  
By Dr. M. Raja  
Manager, Engineering Research Centre  
TATA Motors Limited, Bangalore

**Topic : "Fuel Cell Power Systems in Automotive Applications"**

**1845 Hrs Cultural Programme by P. D. A College of Engineering students**

**Saturday, 30th September, 2006**

## **TECHNICAL SESSIONS**

**0900 - 1000 Hrs : TECHNICAL LECTURE – 3**

By Prof. C. E. Veni Mahadevan  
Department of Computer Science and Automation  
Indian Institute of Science, Bangalore

**Topic : "Computational Complexity of Cryptanalysis problems"**

### **SESSION 5 :**

VENUE : HALL NO. 1 (Lecturer Hall L-22,  
Near Chamber of HOD of Electrical Engineering)

TIME : 10.15 – 12.15 Hrs

### **ELECTRICAL AND ELECTRONICS ENGINEERING**

55. EMBEDDED BASED REMOTE SUBSTATION CONTROL & PARAMETER MONITORING

– PDA COLLEGE OF ENGINEERING, GULBARGA

56. ADVANCE IRRIGATION USING SMS TECHNOLOGY

– HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI, BELGAUM

57. MEASUREMENT OF HIGH VOLTAGE USING OPTICAL FIBRE

– DR AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE

58. MICROCONTROLLER BASED BIDIRECTIONAL V/F CONTROL OF SINGLE PHASE INDUCTION MOTOR

– SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING, MYSORE

### **INSTRUMENTATION ENGINEERING**

59. FPGA IMPLEMENTATION OF SPIHT ENCODER

– BVB COLLEGE OF ENGINEERING & TECHNOLOGY, HUBLI

60. COMPACT GROUNDWATER EXPLORATION UNIT

– R.N.S.I.T, BANGALORE

61. MICROCONTROLLER BASED MOISTURE METER

– MALNAD COLLEGE OF ENGINEERING, HASSAN

62. AUTOMATION OF TOBACCO CURING PROCESS

– MALNAD COLLEGE OF ENGINEERING, HASSAN

**SESSION 6 :**

**Saturday, 30th September, 2006**

VENUE : HALL NO. 2 (Architecture Studio, in Architecture Block)

TIME : 10.15 – 12.15 Hrs.

**MECHANICAL ENGINEERING**

63. EXTRACTION OF BIO-DIESEL FROM SOLVENT WASTE OF VEGETABLE OIL
  - BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE
64. DESIGN AND FABRICATION OF SOLVENT EXTRACTION PLANT FOR PRODUCTION OF BIO-DIESEL (25 KG CAPACITY)
  - BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE
65. MINI AIR VEHICLE
  - KVG COLLEGE OF ENGINEERING, SULLIA
66. IDENTIFICATION OF ENERGY LOSSES IN JAGGERY INDUSTRY THROUGH AN ENERGY AUDIT
  - SRI SIDDARTHA INSTITUTE OF TECHNOLOGY, TUMKUR
67. FRIED VEGETABLE OIL AS BIO-DIESEL
  - SJC INSTITUTE OF TECHNOLOGY, CHIKKABALLAPUR
68. EDIBLE OIL AS AN ALTERNATIVE FUEL FOR IC ENGINE
  - SJC INSTITUTE OF TECHNOLOGY, CHIKKABALLAPUR
69. TRANS-ESTERIFICATION OF NON-EDIBLE OILS & THEIR FEASIBILITY AS CI ENGINE FUELS
  - HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI, BELGAUM

**INDUSTRIAL PRODUCTION ENGINEERING**

70. ANALYSIS OF CORROSION WEAR RATE ON FERROUS AND NON-FERROUS METALS USING CORROSION-EROSION WEAR TESTING MACHINE
  - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA
71. HORTICULTURE MANAGEMENT USING TAGUCHI TECHNIQUES AND OPERATION RESEARCH
  - KLES COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM
72. ERGONOMICS CONSIDERATION IN DESIGN AND DEVELOPMENT OF FARM SPRAYER
  - PDA COLLEGE OF ENGINEERING, GULBARGA

## **SESSION 7 :**

**Saturday, 30th September, 2006**

VENUE : HALL NO. 3 (Lecturerer Hall L-9, Beside Chamber of  
HOD of Department of Maths in the main building)

TIME : 10.15 – 12.15 Hrs.

### **CHEMICAL ENGINEERING**

73. MANUFACTURE OF SOAPS USING ENZYME

- BMS COLLEGE OF ENGINEERING, BANGALORE

74. TREATMENT OF BIO-CONTAMINATED AVIATION FUEL

- DAYANAND SAGAR COLLEGE OF ENGINEERING, BANGALORE

75. REMOVAL OF ARSENIC FROM WATER USING CUSTARD APPLE SEED HULLS

- DAYANAND SAGAR COLLEGE OF ENGINEERING, BANGALORE

76. STUDIES ON METHODS OF BREAKING AZEOTROPE

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

77. INVESTIGATION OF GROWING LYSOZYME CRYSTAL BY SITTING-DROP AND  
HANGING-DROP VAPOUR DIFFUSION METHOD

- VIVEKANANDA INSTITUTE OF TECHNOLOGY, BANGALORE

78. PROTEIN EXTRACTION FROM AGRO-WASTE BAGASSE

- VIVEKANANDA INSTITUTE OF TECHNOLOGY, BANGALORE

79. SYNTHETIC STUDY ON EXTRACTION OF TRICANTHANOL - A PLANT GROWTH  
REGULATOR

- K.L.E.S COLLEGE OF ENGINEERING & TECHNOLOGY, BELGAUM

80. PRODUCTION OF SUPER SWEET STEVIOL GLYCOSIDES FROM STEVIA LEAVES

- VIVEKANANDA INSTITUTE OF TECHNOLOGY, BANGALORE

### **TEXTILE ENGINEERING**

81. COMPARITIVE STUDY OF THE PERFORMANCE OF COMMERCIAL SEWING  
THREADS

- BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE

**1230 - 1330 Hrs**

**TECHNICAL LECTURE - 4**

**by Prof. Mary Mathew**

Department of Management Studies

Indian Institute of Science, Bangalore

Topic: **"Design Management : Its future for India"**

**1600 Hrs – 1730 Hrs**

**VALEDICTORY FUNCTION**

# **VALEDICTORY FUNCTION**

**Saturday, the September 30, 2006**

**1600 – 1605 Hrs.**

**INVOCATION**

**1605 – 1610 Hrs.**

**WELCOME ADDRESS**

Dr. V. D. Mytri  
Principal, P.D.A College of Engineering

**1610 – 1620 Hrs.**

**ADDRESS BY**

Prof. M.K. Surappa  
Secretary, KSCST

**1620 - 1635 Hrs.**

**GUEST OF HONOUR**

Sri. Ramachandra Gowda  
Hon'ble Minister for Science and Technology  
Planning, Sericulture and Small Savings  
Government of Karnataka and Vice President, KSCST

**1635 - 1645 Hrs.**

Sri Sharnabasappa Darshanapur  
Hon'ble Minister for Agricultural Producers  
Marketing Committee & District I/c Minister  
Government of Karnataka

**1645 – 1700 Hrs.**

**VALEDICTORY ADDRESS**

Prof. B. G. Moolimani  
Vice Chancellor, Gulbarga University, Gulbarga

**1700 – 1710 Hrs.**

**PRESIDENTIAL ADDRESS**

Sri Basavaraj S. Bhimalli  
President, HKE Society, Gulbarga

**1710 – 1725 Hrs.**

**DISTRIBUTION OF PRIZES**

**1725 – 1730 Hrs.**

**VOTE OF THANKS**

## **Student Project Programme - 29<sup>th</sup> Series**

During 29<sup>th</sup> Series of Student Project Programme, KSCST received about 800 proposals from various engineering colleges and, after evaluation from experts from Indian Institute of Science and National Laboratories, 312 proposals from 52 engineering colleges were supported and sponsored. After completion of project work, these projects were evaluated by experts and 132 projects were selected for Seminar-cum-Exhibition. P.D.A College of Engineering, Gulbarga and Karnataka State Council for Science and Technology jointly organised the 29<sup>th</sup> series of Seminar cum Exhibition of Student Projects Programme between 29<sup>th</sup> and 30<sup>th</sup> September at Gulbarga.

Prof. P. V. Indiresan, Former Director, Indian Institute of Technology, Chennai inaugurated the seminar cum exhibition and given the inaugural address. Dr. (Mrs.) C. P. Sehgal, Advisor, Department of Science and Technology, Government of India, New Delhi graced the occasion as the Guest of Honour and released the 29<sup>th</sup> series Student Project Programme technical record 2005-2006. Sri. Basavaraj S. Bheemalli, Chairman, Hyderabad - Karnataka Education Society, Gulbarga presided over the function. Prof. M.K. Surappa, Secretary, KSCST delivered the introductory remarks on SPP Programme and on ongoing activities of the Council.

During the seminar cum exhibition, three technical lectures on recent developments in engineering field by eminent scientists and technocrats were arranged. The technical lectures were on the following topics.

- ❖ **"Seismicity of Peninsular India and A case study of microzonation and site response for Bangalore"** by Prof. T.G. Sitharam, Department of Civil Engineering, Indian Institute of Science, Bangalore
- ❖ **"Fuel Cell power systems in automotive applications"** - Dr. M. Raja, Manager, Engineering Research Centre, TATA Motors Limited, Bangalore
- ❖ **"Computational Complexity of Cryptanalysis Problems"** - Prof. C.E. Veni Madhavan, Department of Computer Science and Automation, Indian Institute of Science, Bangalore

On 30th September 2006, Prof. B. G. Moolimani, Vice-Chancellor, Gulbarga University delivered the valedictory address and Mr. Ramachandra Gowda, Hon'ble Minister for Science and Technology, Planning, Sericulture and Small Savings, Government of Karnataka was the Guest of Honour and distributed the prizes. Prof. M.K. Surappa, Secretary, KSCST delivered concluding remarks of the programme. Sri. Basavaraj S. Bheemalli, Chairman, Hyderabad-Karnataka Education Society, Gulbarga presided over the function. A note worthy features of this programme was the enthusiastic and extensive participation of engineering students and faculty of various engineering colleges.

Seven projects were adjudged as 'Best Projects of the Year' and 10 projects were selected for 'Commendation' by a panel of experts in relevant fields. The students and faculty of these selected projects were awarded with certificates and cash prizes.

**List of projects selected for "PROJECT OF THE YEAR" award and  
"COMMENDATION CERTIFICATE" during the Seminar-cum-Exhibition of  
Student Projects**

**BEST COLLEGE OF THE YEAR 2005-2006**

**Bapuji Institute of Engineering and Technology, Davangere**

**PROJECTS OF THE YEAR (PRIZE)**

**1. SMART WHEEL CHAIR**

COLLEGE : KVG COLLEGE OF ENGINEERING, SULLIA

GUIDE : PROF. B. S. KEDILAYA

STUDENTS : PRASHANTHA KUMAR SHETTY

B. SANATH KUMAR SHETTY

K. SHAMANTH BHAGWATH

**2. MAKE YOUR CAR JUST AS FAR AS UR MOBILE**

COLLEGE : PA COLLEGE OF ENGINEERING, MANGALORE

GUIDE : PROF. PRAKASH SHETTY

STUDENTS : DYOTHAK CHETHAN D'SOUZA

PREM ISIDORE JEROME D'SOUZA

REXON SURAJ D'SOUZA

### **3. DEVELOPMENT OF ERI-SILK PRODUCTS AND STUDY OF THEIR PROPERTIES**

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY,  
DAVANGERE

GUIDE : DR. H. L. VIJAYA KUMAR

STUDENTS: G. K. DIVYA  
M. V. RASHMI  
K. SWARNA  
M. P. MANASA

### **4. ERGONOMICS CONSIDERATION IN DESIGN AND DEVELOPMENT OF FARM SPRAYER**

COLLEGE : PDA COLLEGE OF ENGINEERING, GULBARGA

GUIDE : PROF. S.S. KALSHETTY

STUDENTS: AMARESHWARI  
GURURAJ M. KULKARNI  
MISHA KULKARNI  
PRAGNYA

### **5. WIRELESS TELEMETRY**

COLLEGE : BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYAN

GUIDE : PROF. SWAMY S.S.

STUDENTS: AROOP PRASAD  
V. K. JAYATEERTH  
T. E. MADHU SUDHAN

### **6. CLASSIFICATION OF SOYABEAN SEEDS BY COLOUR IMAGE ANALYSIS**

COLLEGE : BVB COLLEGE OF ENGINEERING & TECHNOLOGY, HUBLI

GUIDE : PROF. B. L. DESAI  
DR. K. LINGANAGOUDA

STUDENTS: SUDHIR. N. GUPTA  
ZOHEB. S. HUKKERI  
ASHA. K. KULKARNI  
SMITHA. G. PATIL

### **SPECIAL PRIZE (Prof. Basavaraj Award)**

#### **TRI WHILLA-H**

COLLEGE : NMAM INSTITUTE OF TECHNOLOGY, NITTE

GUIDE : MR. MALLIKAPPA

STUDENTS: PRAJWAL P. SHETTY  
S. PRASHANTH  
B. PUNEETH RAI  
U. RAJESH SHENOY

## **PROJECT SELECTED FOR COMMENDATION CERTIFICATE**

### **1. MICROCONTROLLER BASED INSTRUMENTATION SYSTEM NETWORKING**

COLLEGE : ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR

GUIDE : PROF. A. P. JAGADEESH CHANDRA

STUDENTS: N. NAGASHREE

C. P. SAVITHA

M. SHWETHA

K. SWETHA

### **2. VHDL BASED DATA CENTER SECURITY SYSTEM**

COLLEGE : P. A. COLLEGE OF ENGINEERING, MANGALORE

GUIDE : MR. MUNEER

STUDENTS: ASKAR KURUNNANKANDIYIL

JABIR K. P.

MAQBOOL K. K

MUHAMMED RAYEES T. P

### **3. EMBEDDED BASED TELEMETRY ECG MONITORING SYSTEM**

COLLEGE : PDA COLLEGE OF ENGINEERING, GULBARGA

GUIDE : PROF. G. M. PATIL

STUDENTS: GOVIND

ROHIT RANJIT GHATGE

ANAND CHAVAN

PAWAN KUMAR

### **4. MOSFET BASED SOLAR CHARGER FOR REMOTE AREA APPLICATIONS**

COLLEGE : SRI SIDDARTHA INSTITUTE OF TECHNOLOGY, TUMKUR

GUIDE : MS. R. PUSHPALATHA

STUDENTS: Y. O. SHOBHA

K. S. SHYLAJA

### **5. TRANS-ESTERIFICATION OF NON-EDIBLE OILS & THEIR FEASIBILITY AS CI ENGINE FUELS**

COLLEGE : HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI, BELGAUM

GUIDE : PROF. S. A. ALUR

STUDENTS: ABHIJEET MITRA

VISHWANATH KAMBI

SHRIDHAR PATIL

VAIJANATH PATIL

### **6. SHEAR STRENGTH CHARACTERISTICS OF BRICK MASONRY**

COLLEGE : BANGALORE INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : PROF. K. V. VIJAYENDRA

STUDENTS: K. HARSHA

MOHAMMED MOAZZAM

A. SATHYANARAYANA

**7. CLEANER TECHNOLOGY FOR THE TREATMENT OF DISTILLERY WASTE**

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY,  
DAVANGERE

GUIDES : DR. S. MANJAPPA  
DR. B. G. PUJAR

STUDENTS : B. JITENDRA KUMAR  
K. MEENA  
K. V. NIKHIL  
K. R. RANJANI

**8. STUDIES ON STRENGTH AND BEHAVIOUR OF COMPOSITE TUBES FOR EARTHQUAKE RESISTANT INDUSTRIAL STRUCTURES**

COLLEGE : GHOUSIA COLLEGE OF ENGINEERING, RAMANAGARAM

GUIDE : PROF. N. S. KUMAR

STUDENTS : B. K. RAGHAVENDRA  
ABDUL RAHEEM  
C. RAVIKUMAR  
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**9. COMPARITIVE STUDY OF THE PERFORMANCE OF COMMERCIAL SEWING THREADS**

COLLEGE : BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY,  
DAVANGERE

GUIDE : MR. S. N. RAMESH

STUDENTS : P. H. LINGARAJ  
A. S. VEERABASAPPA  
S. K. SREERANGA

**10. PROTEIN EXTRACTION FROM AGRO-WASTE BAGASSE**

COLLEGE : VIVEKANANDA INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : DR. K. ANANTH RAM

STUDENTS : R. DEEPA  
SAGAR V. PUTHRAN  
VINAYAKA SHASTRI  
WAIKHOM RISHIKESH SINGH