

MedBEAT

Dr. N.G.P INSTITUTE OF TECHNOLOGY

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi, Accredited by NBA, NAAC & Recognized by UGC)

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DEPARTMENT OF BIOMEDICAL ENGINEERING

Email:biomedicaloffice@drngpit.ac.in



VISION

To produce quality biomedical engineers with strong **technical knowledge** and excellence in **engineering design** for providing solutions to **healthcare problems**.

MISSION

- MD 1** : Integrating engineering and life sciences for the development of **innovative biomedical products**.
- MD 2** : Imparting **quality education** through innovative Teaching - Learning methodologies.
- MD 3** : Collaborating with **healthcare industries** for education, training, research and development.
- MD 4** : Establishing **state-of-the-art facilities** to enhance the technical skills.
- MD 5** : Providing sustainable solutions for challenges in **global healthcare** with ethical, social and moral values.

PEO

- PEO 1** : Have **successful career** in Biomedical Engineering and other relevant disciplines.
- PEO 2** : Design **devices, systems and processes** for improving healthcare industries.
- PEO 3** : Engage in **lifelong learning activities** to become a member of globalized engineering teams with ethical values and standards.

Dr. Nalla G Palaniswami

Chairman

Dr. Thavamani D Palaniswami

Secretary

Dr. O. T. Buvaneswaran

CEO

Dr. K. Porkumaran

Principal

Dr. S. Prabakar

HoD & Chief Editor

Mr. John Amose

Dr. C. Ram Kumar

Editorial Board Members

Mr. S. Logesh Kumar

Ms. M. R. Ranjana

IV Year

Ms. J. Jeslin Libisha

III Year

Mr. G. S. Hariprasath

II Year

FACULTY STRENGTH

| Description | Strength |
|---------------------|----------|
| Professor | 2 |
| Assistant Professor | 12 |
| Visiting Faculty | 1 |
| Ph.D. Holders | 3 |
| Ph.D. Pursuing | 8 |

STUDENTS STRENGTH

| Description | Boys | Girls | Total |
|--------------|-----------|------------|------------|
| IV Year | 13 | 41 | 54 |
| III Year | 19 | 40 | 59 |
| II Year | 20 | 40 | 60 |
| I Year | 27 | 31 | 58 |
| Total | 79 | 152 | 231 |

STUDENT ACHIEVEMENTS

- Salmaan Rasheed B, Sathya Sooraj B and Poornesh M of III year won first prize in paper presentation at Sri Ramakrishna Engineering College on 04.01.2018.
- Harshene H and Jeslin Libisha J of III year won the best paper award in paper presentation at Karapaga Vinayaga College of technology, Chennai dated on 04.01.2018 - 05.01.2018.

DEPARTMENT ACHIEVEMENTS

- Department of BME has submitted a Self-Assessment Report (SAR) on 20 Jan 2018.
- The Scrutiny Committee has visited our department during March 23-25, 2018. The NBA expert members are Dr. A K Das, professor Biotechnology-chairman, life science division, IIT Kharagpur and Dr.M.Owais, professor biotechnology, Aligarh Muslim University, Uttar Pradesh.
- Our department has been accredited by National Board of Accreditation for the academic year 2018-19, 2019-20 and 2020-21.
- Dr.NGP Institute of Technology celebrates the 11th Annual Day for the academic year 2017-18 on 21-4-2018.
- The chief guest for the function was Dr. Ajay Kumar Singh, Director-INMAS, Ministry of Defence, DRDO, NewDelhi.
- During the function, the institution magazine and newsletter were released and the Annual report was delivered by our Principal.
- 35 team of students received cash price, 16 faculty members received certificate of appreciation, 21 projects has been awarded with cash price and 19 faculty received cash price for paper publication in reputed journals.



NATIONAL BOARD OF ACCREDIATION



SWATCHH BHARAT

ACADEMIC ACHIEVEMENTS

NOV/DEC 2017 RESULT - TOPPERS

IV YEAR



Ms. Kiruthika
GPA:8.85



Ms Sathya. T
GPA:8.69



Ms Durga Devi.N
GPA:8.67

III YEAR



Ms. Madhumitha.R
GPA:9.17



Ms. Harini Sri.B
GPA:8.91



Ms. Jeslin Libisha.J
GPA:8.91

II YEAR



Ms.Dharshini.R
GPA:8.6



Ms.Divya.S
GPA:8.4



Ms. Rohini.M
GPA:8.40

STUDENTS PARTICIPATION

| Description | II Year | III year | IV Year | Total |
|--------------------|---------|----------|---------|-------|
| Paper Presentation | 4 | 8 | 13 | 25 |
| Project Design | 0 | 1 | 13 | 14 |
| Workshop | 15 | 18 | 14 | 47 |
| Conference | 6 | 11 | 19 | 36 |
| IPT/ Internship | 49 | 50 | 44 | 143 |

ACTIVITIES ORGANIZED



ALUMNI LECTURE SERIES
Resource Person: Hemapreetha, Vaishali
Date: 20.1.2018



ALERE EASY ELISA READER TRAINING PROGRAMME
Resource Person: K.C. Sajith
Managing Director, Diagnostic services, Salem
Date: 22.2.2018



MEDZEST 2018
A forum for hands on training and quality control of Medical Equipment
Resource Person: Mr. Prabhat Kumar
India Medtronics private limited, Coimbatore
Date: 23.2.2018, 24.2.2018



11th ANNUAL DAY
Resource Person: Dr. Ajay Kumar Singh
Director- Institute of Nuclear Medicine & Allied Sciences (INMAS) Defence Research & Development Organization (DRDO), Government of India, New Delhi
Date: 21.4.2018



VALUE ADDED COURSES
Resource: Calibration and testing
Helix Cooperation
Date: 18-21.6.2018, 25-29.6.2018



IBSC REGISTRATION
Resource Person: Natturi Naresh
National coordinator - Indian Biomedical Skill Consortium
Date: 29.6.2018

PARTICIPATION IN VARIOUS EVENTS BY STUDENT & FACULTY

- ✓ Dr. S. Prabakar published a paper on “Cognitive Training for Special Needs Using Virtual Reality” in 47th ISTE National Annual Convention on Jan 2018.
- ✓ Dr. M. A. Raja published a paper on “Modern Teaching & Learning Styles in Technical Education” in 47th ISTE National Annual Convention on Jan 2018.
- ✓ Dr. C. Ram Kumar published a paper on “Solar Street Assistance Walking Cane” in Swansea Printing Technology Ltd, Taga Journal, March 2018, Volume 14, 177-181, and no. 1748- 0345.
- ✓ Dr. C. Ram Kumar published a paper on “Drip Rate Monitor for Infusion Fluids” in Swansea Printing Technology Ltd, Taga Journal, March 2018, Volume 14, 2312-2316, no. 1748-0345.
- ✓ Dr. C. Ram Kumar published a paper on “Rehabilitation Tool for Gastroparesis by the Analysis of Interstitial Cells of Cajal (The External Gastric Pacemaker with a Feedback of Gastric Potential)” in Swansea Printing Technology Ltd, Taga Journal, April 2018, Volume 8, Issue 2, no. 2161-069X.
- ✓ Mr. S. Logesh Kumar published a paper on “Design and Development of Wearable EOG system for Neuroscience Applications” in International Conference on Science, Engineering & Management Research 2018, 9th& 10th March 2018.
- ✓ Dr. C. Ram Kumar published a paper on “Patient Monitoring System for Detection of Alzheimer's Disease”, “A Device for Local or Remote Monitoring of Hand Rehabilitation Sessions for Rheumatic Patients”, “Drip Rate Monitor for Infusion Fluids”, “Blood Sugar Regulation by Implantable Nano pancreas ICMR Sponsored National Conference on Rehabilitation Engineering and Healthcare in India - Current Scenario and Future Perspectives held at Karpaga Vinayaga College of Engineering and Technology
- ✓ Govardhan B, 2nd year attended the national level conference on “Personalised medicine” held at Vellalar College of engineering, Erode.
- ✓ Dharshini L, Niveditha R, Pavithra K S, Pooja G, Rohini M of 2nd year participated in the conference on “Molecular diagnostics” held at vellalar college of engineering, Erode.
- ✓ Ajay R, Anandhu M, Hariprasath G S, Kishore Kumar of 2nd year attended a workshop “Machine winding” held at Karpagam college of engineering, Coimbatore.
- ✓ Keerthana prashanthi, Kiruthiga G P, Krithika J K, Paviya R participated in the workshop held at Sri Ramakrishna engineering college, Coimbatore on “MATLAB”
- ✓ Dharshini L, Niveditha R, Pavithra K S, Pooja G, Rohini M of 2nd year attended the workshop on “Biomemics” held at Kumara guru College of Technology, Coimbatore.
- ✓ Niveditha R, Rohini M of 2nd year attended a certification course on wet chemicals and Nano particles held at Sri Ramakrishna Engineering College, Coimbatore.
- ✓ Govardhan B and Vignesh VR presented a paper on wearable devices at Sri Ramakrishna Engineering College.
- ✓ Niveditha R and Pooja G presented a paper on IOT based PMS at Sri Ramakrishna Engineering College.