MedBEAT

Dr. N.G.P INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai,
Recognized by UGC & Accredited by NAAC 'A+' & NBA [BME, CSE, ECE, EEE & Mechanical])
Dr N G P Nagar, Kalapatti Road, Coimbatore 641 048.
Ph: 0422 2369105, Fax: 0422 2369106
Website: www.drngpit.ac.in

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

Dr. B. Vidhya

Dr. C. Ram Kumar

Mr. John Amose

Editorial Board Members

Ms. R. Sowmitha
IV Year

Ms. Shrisha Sathishkumar
III Year

Ms .E. Sowmya shri
Ms .P. Sreeniveatha
II Year

FACULTY STRENGTH

Description	Strength
Professor	**1**
Assistant Professor	**16**
Ph.D. Holders	**4**
Ph.D. Pursuing	**5**

STUDENTS STRENGTH

Description	Boys	Girls	Total
IV Year	26	28	54
III Year	23	32	55
II Year(A)	31	28	59
II Year (B)	28	29	57
I Year (A)	19	33	52
I Year (B)	25	26	51
Total	**159**	**168**	**328**

NAAC VISIT - GLIMPSES

Dr. Sanjeev Jain, Chairperson of NAAC Steering Committee visited the department during the NAAC accreditation visit

DEPARTMENT ACHIEVEMENTS

✓Dr. S. Prabakar delivered a guest lecture in AICTE Sponsored Two Week Faculty Development Programme on "Machine Learning Techniques for Imaging and Health Care with Python", at Sairam College of Engineering, Chennai on 01.02.2021.

✓Dr. C. Ram Kumar delivered a guest lecture in AICTE Sponsored Online Two Week Faculty Development Programme on "Teaching Learning Methods towards Outcome Based Education", at Velammal Institute of Technology, Chennai on 20.02.2021.

✓ Dr. C. Ram Kumar delivered a guest lecture on "Prosthesis – Reviving Life's Hope", at Ganpat University, Gujarat on 17.04.2021.

STUDENT ACHIEVEMENTS

✓Sukenthan S. S of final year has participated Idea Presentation, organized by department of computer science and Engineering of KPR Institute of Engineering and Technology and won 1st prize.

✓Kayalvili D and Lalithambiga R of second year got selected in Ideathon organized by Dr.N.G.P. Institute of Technology.

✓Harinee P of second year successfully completed Coursera Course in "Introduction to Machine Learning", offered by Duke University.

✓Lalithambiga R of second year successfully completed Coursera Course in "Content, advertising and social IMC", Northwestern University.

✓Harini.D of second year successfully completed Coursera Course in "programming for everybody", Michigan University.

✓Shrisha Sathishkumar pf third year has successfully completed Coursera Guided Project in "Classify Radio Signals from Space using Keras", offered by Coursera Project Network on 20.01.2021.

ACADEMIC ACHIEVEMENTS

NOV/DEC 2020 RESULT - TOPPERS

IV YEAR

Mr. C. S. Manoj
GPA:9.03

Ms. V. Johne Shalini
GPA:8.88

Ms K.Dhivya
GPA:8.79

III YEAR

Ms. Jhone Nishika
GPA: 9.41

Ms. R. Roshitha
GPA: 9.36

Mr. R. Vigneswar
GPA: 9.27

II YEAR BME A

Ms. I. Kaaviya
GPA:9.5

Ms. N. Mamthakamali
GPA: 9.357

Mr. S. Arjuna
GPA:9.32

II YEAR BME B

Ms. K. Nandhini
GPA: 9.44

Ms. P. Sreeniveatha
GPA: 9.32

Mr. Sathishwaran
GPA: 9.2

ACADEMIC ACHIEVEMENTS

Description	II Year	III Year	IV Year	Total
Paper Presentation	-	-	1	1
Project Design	-	-	54	54
Workshop		14	1	15
Conference	-	-	-	-
IPT	6	5	-	11
Internship	1	1		2

ACTIVITIES ORGANIZED

YOUTH POWERED WEBINAR SERIES
Resource Person: General Healthcare and Publication
Chennai
Date: 26.03.2021

STUDENT DEVELOPMENT PROGRAMME
Resource Person: Dr. Mamta Godiyal
Brain Reprogramming Coach, Founder of MaGpie
Date: 01.04.2021

STUDENT DEVELOPMENT PROGRAMME
Resource Person: Mr.S.Prasanna Krishna
Study Abroad-Opportunities around the globe
Date: 02.04.2021

STUDENT DEVELOPMENT PROGRAMME
Resource Person: Ms. S. M. Ida Rachel
Leader- product & Growth, 5C Network Pvt. LTD, Bengalaru
Date: 03.04.2021

STUDENT DEVELOPMENT PROGRAMME
Resource Person: Mr.S.Arsath Natheem
Genreal healthcare and Publications
Date: 04.04.2021

STUDENT DEVELOPMENT PROGRAMME
Resource Person: Mr. Vivek Patil
Auburn University, USA
Date: 05.04.2021

STUDENT DEVELOPMENT PROGRAMME
Resource Person: Dr. Rajesh Pai
Amrita Institute of Medical Science and Research centre
Date: 06.04.2021

STUDENT DEVELOPMENT PROGRAMME
Resource Person: Dr. Prasanth Manohar
The University of Edinburg Institute of Zhejiang University, China
Date: 07.04.2021

NATIONAL LEVEL WEBINAR
Resource Person: Dr. Nivedita Tiwari
Clinical Head, Logy.AI
Date: 16.05.2021

PARTICIPATION IN VARIOUS EVENTS BY STUDENT & FACULTY

- ✓Dr. Ramkumar has attended AICTE online orientation Programme for mentors organized from 14.06.2021 to 18.06.2021.
- ✓Dr. Ramkumar has attended Transformation through NAAC Accreditation process, A National level workshop for higher educational Institutions organized Institute of academic excellence Hyderabad from 21.06.2021 to 22.06.2021.
- ✓Dr. B. Vidhya participated in one week FDP on "Mentoring Pedagogy, Teaching and Application of ICT Tools for online classroom Delivery For Teachers" organized by Dr. NGP Institute of technology from 03.05.2021 to 10.05.2021
- ✓Mr. S. Logesh Kumar attended ATAL FDP on "Telemedicine and Digital Healthcare: Opportunities and Threats" organized by Rabindranath Tagore University from 17.05.2021 to 21.05.2021.
- ✓Dr. N. Rajasingam attended on ATAL FDP on "ATAL FDP on Artificial Intelligence and its Applications", organized by Government College of Engineering from 07.06.2021 to 11.06.2021.
- ✓Dr. N. Rajasingam attended on ATAL FDP on "Principles of Artificial Intelligence, Machine learning and Deep learning", organized by University of Mysore from 21.06.2021 to 25.06.2021.
- ✓Mr. S .Vigneshwaran attended AICTE FDP on "Photonics" from organized by National Institute of Technology Karnataka from 1-2-2021 to 5.2.2021.
- ✓Mr. S .Vigneshwaran attended STTP on "Empowering the Moral Values, Ethics and Behaviour Attitude in Teaching Skills among Teachers", organized by Dr.N.G.P. Institute of technology from 18.01-2021 to 23.01.2021.
- ✓Ms.V.Vivekitha attended AICTE FDP on "Emerging Technologies in Healthcare IOT, AI, Computational Neuroscience, Wearable Technologies", organized by L.D College of Engineering, Ahmadabad from 18.01.2021 to 22.01.2021
- ✓Ms. V. Vivekitha attended ATAL FDP on "Research methodologies and design thinking for leadership, excellence and soft skills", organized by PDPM Indian Institute of Information technology design and manufacturing, Ahmadabad from 21.06.2021 to 25.06.2021.
- ✓Ms. Sukanya Sudarsanan attended ATAL FDP on "Internet of things", organized by Central University of Kerala from 11.01.2021 to 15.01.2021.
- ✓Third year students participated in "National Level e-Quiz on Covid 19", organized by Internal Quality Assurance Cell of Chevalier T. Thomas Elizabeth College for Women, Chennai on 04.06.2021.
- ✓Rebeka R third year student has completed LinkedIn course on "Learning Python", on 15.06.2021.
- ✓Shrisha Sathishkumar of third year participated in 7th International Day of Yoga and has taken "Integrate and Encourage Yoga through Life" pledge on 19.06.2021.
- ✓Jisa Joy of second year received certificates by participating in online Quiz competitions related to "Biomedical Instrumentation", "Biotechnology and Applications".
- ✓Lalithambiga R of second year attended a workshop on "Content Writing", organized by Dhronacharya Edutech platform, Coimbatore on 06.06.2021.
- ✓Lalithambiga R and Kayalvili D of second year attended a workshop on "5am Leadership Boot camp", organized by Dhronacharya Edutech platform, Coimbatore on 06.01.2021.
- ✓Kayalvili D of second year attended a five days' workshop on "Image Processing Using MATLAB", organized by Pantech Solutions, from 12.04.2021 to 16.04.2021.
- ✓Kayalvili D and Lalithambiga R of second year attended a workshop on "LinkedIn workshop", organized by Dhronacharya Edutech platform, Coimbatore on 08.04.2021.

PUBLICATIONS BY FACULTY

- ✓ Dr. S Prabakar published a paper on "Virtual Reality a Pragmatic Technique for Multi-Sensory Story Telling to Improve the Social Communication of Children with Special Needs", January 2021, vol.11, Issue : 2, pp. 2245- 2250, in ICTACT Journal on Soft Computing.
- ✓ Dr. S Prabakar published a paper on "An Intelligent Wearable Robotic Device for Knee Rehabilitation", January 2021, vol.11, Issue: 3, pp. 2317- 2322, in ICTACT Journal on Soft Computing.
- ✓ Ms. S. Logesh Kumar published a paper on "Fabrication of Dual Layered Biocompatible Herbal Biopatch from Biological Waste for Skin - Tissue Regenerative Applications", May 2021, vol.183, Issue: 2021, pp. 1106–1118, in International Journal of Biological Macromolecules.
- ✓ Dr. N Rajasingam published a paper on "Neck Pain Aid Using NI-LabVIEW", June 2021, vol. 7, Issue: 3, pp. 1459-1464, in International Journal of Advance Research and Innovative Ideas in Education.

  Ms. R Saranya and Ms. K Chamundeswari published a paper on "Formulation and Ex- Vivo Evaluation of Naproxen Emulgel by Skin Irritation Test", June 2021, vol. 40, Issue: 8, pp. 1770 – 1775, in Latin American Journal of Pharmacy.