

VELTECH MULTITECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE

(Approved by AICTE, Affiliated to ANNA UNIVERSITY, Chennai, ISO 9001:2008 Certified Institution,

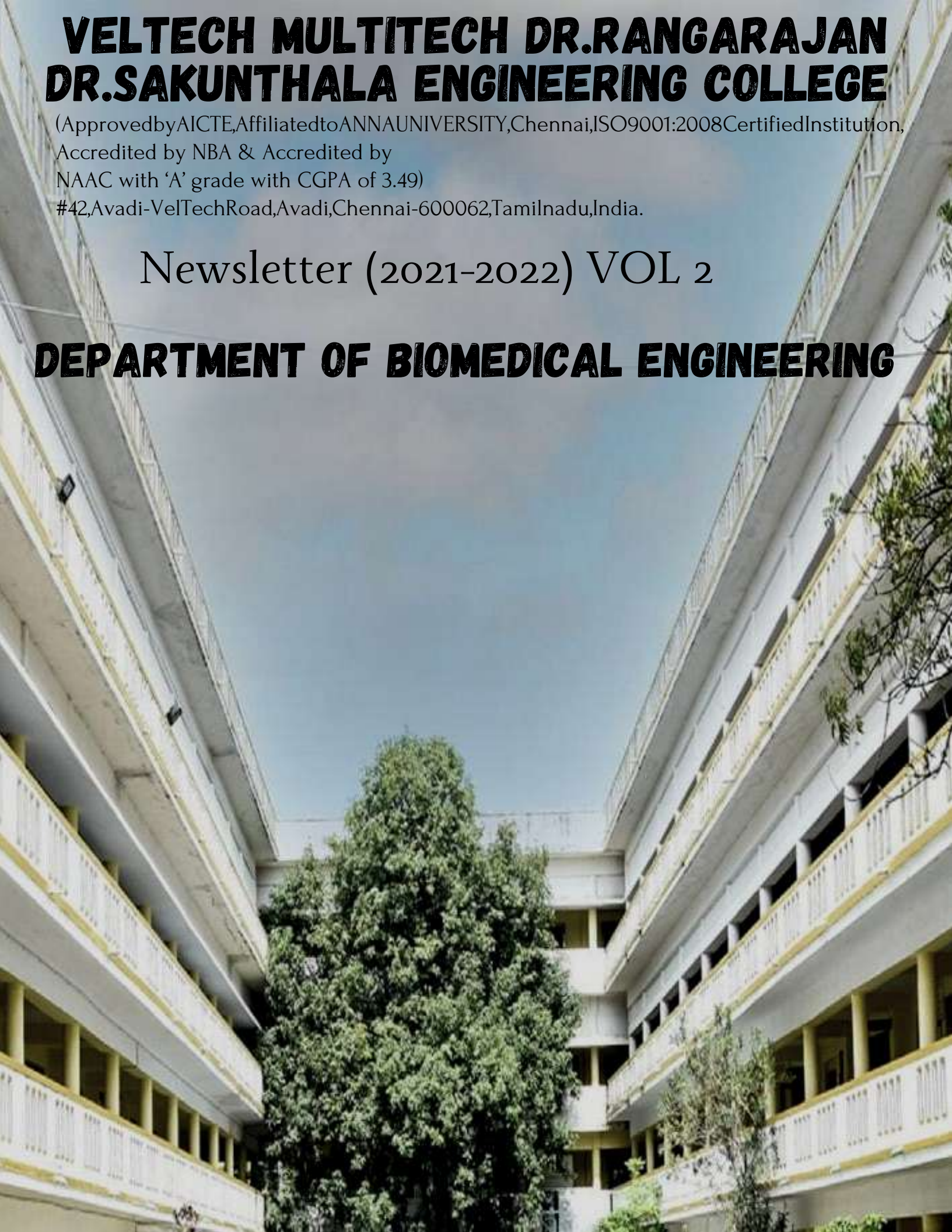
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NAAC with 'A' grade with CGPA of 3.49)

#42, Avadi-VelTech Road, Avadi, Chennai-600062, Tamilnadu, India.

Newsletter (2021-2022) VOL 2

DEPARTMENT OF BIOMEDICAL ENGINEERING



ABOUT THE DEPARTMENT

VISION

TO ESTABLISH TEACHING AND RESEARCH PLATFORM IN MEDICAL ELECTRONICS FOR THE HEALTH AND WELL BEING OF MANKIND

MISSION

- 1.TO DISSEMINATE FUNDAMENTAL KNOWLEDGE ON MEDICAL ELECTRONICS FOR PROFESSIONAL DEVELOPMENTS**
- 2.TO PROPAGATE LIFELONG LEARNING**
- 3. TO IMPART THE RIGHT PROPORTION OF KNOWLEDGE, ATTITUDES AND ETHICS IN STUDENTS TO ENABLE THEM TAKE UP POSITIONS OF RESPONSIBILITY IN THE SOCIETY AND MAKE SIGNIFICANT CONTRIBUTIONS**

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1 TO ENRICH THE STUDENTS TO LIBERATE THEMSELVES IN LEARNING SKILLS INVOLVING

COMPLEX THOUGHTS, PROBLEM ANALYSIS AND FINDING SOLUTIONS.

PEO 2 TO IDENTIFY OPPORTUNITIES AND DEVELOP THE LEVEL OF COMPETENCY IN TECHNICAL AND COMMUNICATION SKILLS TO ESTABLISH THEIR EXCELLENCE IN PROFESSIONALISM

PEO 3 TO IMPLEMENT THE VERSATILE QUALITIES ACQUIRED TO A CHOSEN CAREER, BY

PROVIDING AN IMPACT FOR THE SUSTAINABLE GROWTH AND SUCCESS.

PEO 4 TO EXPLORE THEIR IDEAS IN RESEARCH AND PROMOTING THEM TO BE EXCEPTIONALLY GOOD IN MEETING THE CHALLENGES OF INNOVATION AND CREATIVITY

PEO 5 TO HAVE A DIVERSIFIED KNOWLEDGE IN MEDICAL PRACTICES AND INSTRUMENTATION TO RECOGNIZE THE NEEDS OF SOCIETY AND SERVE PEOPLE WITH PROFESSIONAL ETHICS

PROGRAMME OUTCOMES

P01 APPLY ENGINEERING KNOWLEDGE TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.

P02 ANALYZE COMPLEX ENGINEERING PROBLEMS.

P03 DESIGN & DEVELOPMENT OF SOLUTIONS FOR COMPLEX ENGINEERING PROBLEMS.

P04 USE RESEARCH BASED KNOWLEDGE AND RESEARCH METHODS TO CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS.

P05 CREATE, SELECT AND APPLY APPROPRIATE TECHNIQUES OF MODERN ENGINEERING AND IT TOOLS.

P06 APPLY ENGINEERING KNOWLEDGE TO ASSES SOCIAL, HEALTH, SAFETY, LEGAL AND CULTURAL ISSUES.

P07 UNDERSTAND THE IMPACT OF PROFESSIONAL ENGINEERING SOLUTIONS IN SOCIETAL ENVIRONMENT FOR SUSTAINABLE DEVELOPMENT.

P08 APPLY ETHICAL PRINCIPLE AND RESPONSIBILITIES OF THE ENGINEERING PRACTICE.

P09 FUNCTION EFFECTIVELY AS AN INDIVIDUAL AND AS A MEMBER OR LEADER.

P010 COMMUNICATE AND WRITE DESIGN DOCUMENTATION AND REPORTS ON COMPLEX ENGINEERING ACTIVITIES EFFECTIVELY.

P011 UNDERSTAND AND APPLY THE ENGINEERING & MANAGEMENT PRINCIPLES TO MANAGE PROJECTS IN MULTIDISCIPLINARY ENVIRONMENTS.

P012 ABILITY TO PREPARE & ENGAGE IN INDEPENDENT AND LIFE-LONG LEARNING IN THE BROADEST CONTEXT OF TECHNOLOGICAL CHANGE.

PROGRAM SPECIFIC OUTCOMES

PS01 ABLE TO UNDERSTAND THE MATHEMATICAL AND PHYSICAL FOUNDATIONS OF BIOMEDICAL ENGINEERING AND HOW THESE ARE APPLIED IN THE ANALYSIS OF BIOLOGICAL SYSTEMS FOR BIOMEDICAL INSTRUMENTS AND TECHNOLOGICAL ADVANCEMENT FOR HEALTH CARE. (UNDERSTAND)

PS02 ABLE TO DESIGN A VARIETY OF ELECTRONIC DEVICES AND SOFTWARE FOR APPLICATIONS INCLUDING BIOMEDICAL INSTRUMENTATION, PHYSIOLOGICAL MEASUREMENT, REHABILITATION ENGINEERING AND MEDICAL IMAGING & INFORMATICS. (DESIGN)

PS03 ABLE TO MEET DESIRED NEEDS WITHIN REALISTIC CONSTRAINTS SUCH AS ECONOMIC, ENVIRONMENTAL, SOCIAL, ETHICAL, HEALTH AND SAFETY, MANUFACTURABILITY AND SUSTAINABILITY. (SOCIETY, ENVIRONMENTAL, SUSTAINABILITY)

EDITORS

ACADEMIC YEAR 2021 -2022

PUBLISHER -VELTECH MULTITECH

- Dr G. SASI -FACULTY
- Mr. S. VINURAJKUMAR -
FACULTY
- Mr. PRABHURAM -
STUDENT
- Ms. SHARIKA SREE -
STUDENT

RANK HOLDERS



**DEPARTMENT OF
BIOMEDICAL
ENGINEERING**

NAME : SNEHA.U

RANK :15

BATCH :2017-2021

RANK HOLDERS



**DEPARTMENT OF
BIOMEDICAL
ENGINEERING**

NAME : HARITHA SASIKUMAR

RANK :18

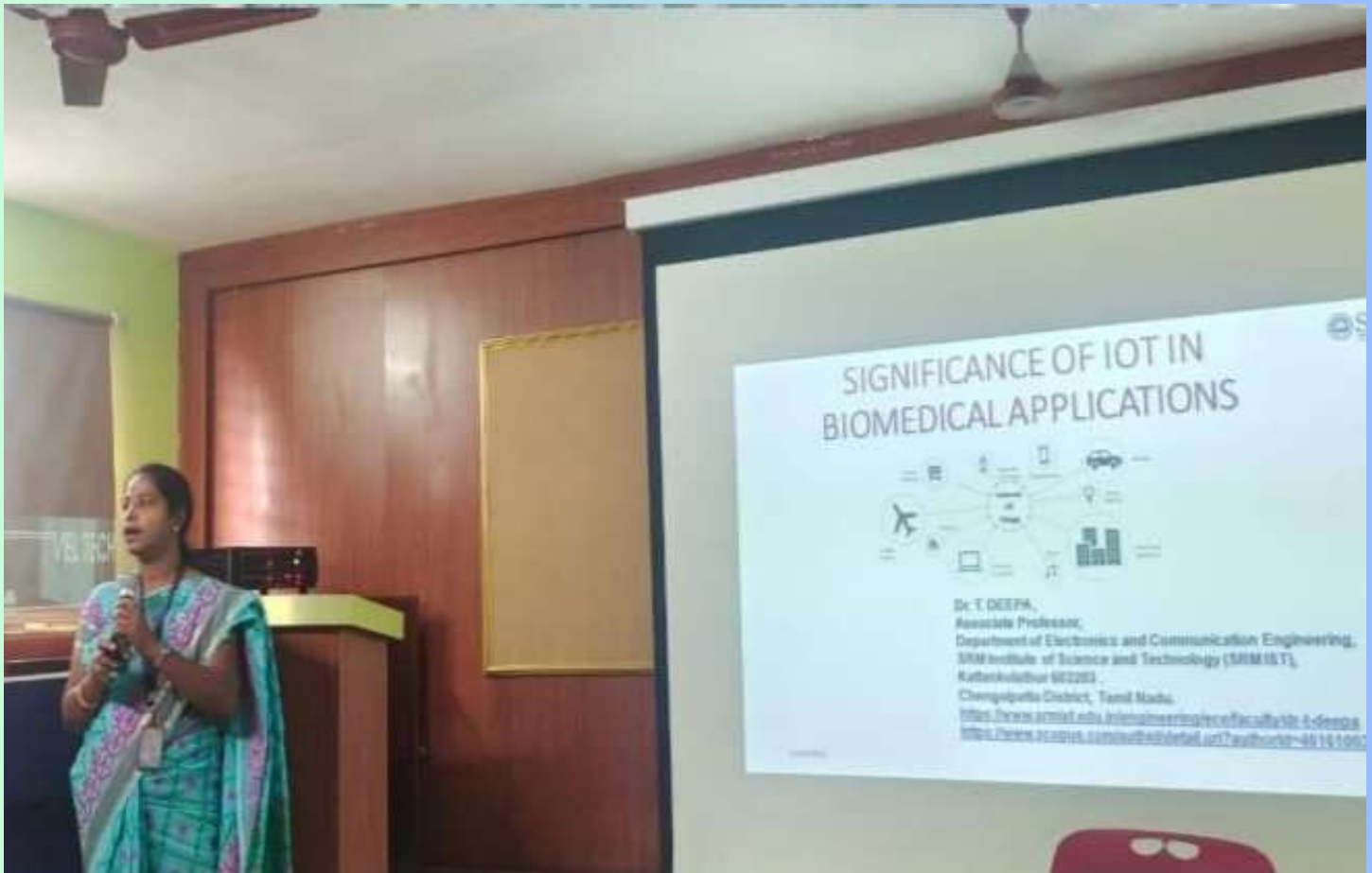
BATCH :2017-2021



EVENT ORGANIZED

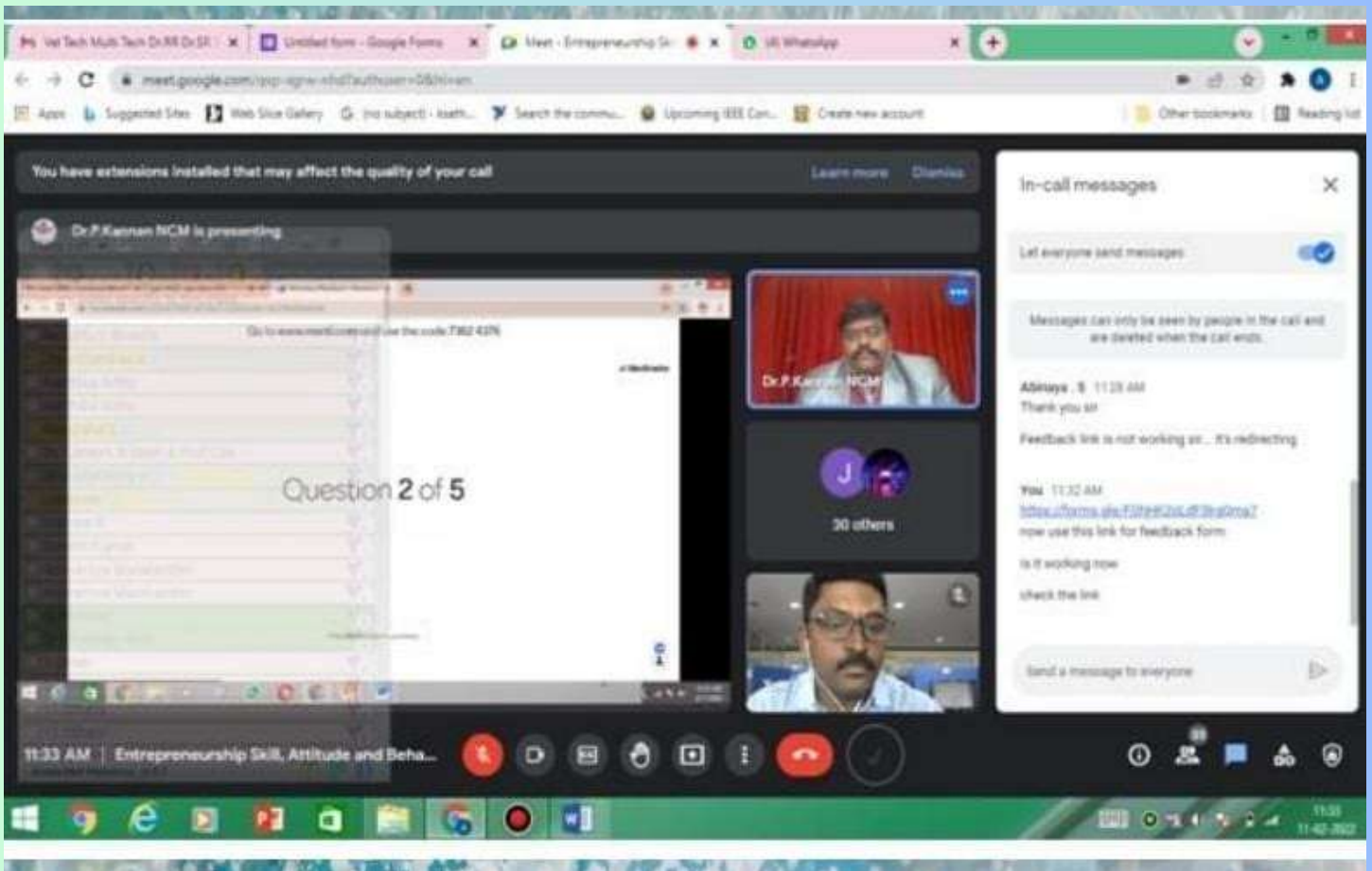
GUEST LECTURES

SIGNIFICANCE OF IOT IN BIOMEDICAL APPLICATIONS



**DR.T.DEEPAA, ASSOCIATE PROFESSOR
GRADE -1, ECE , SRMIST ,**

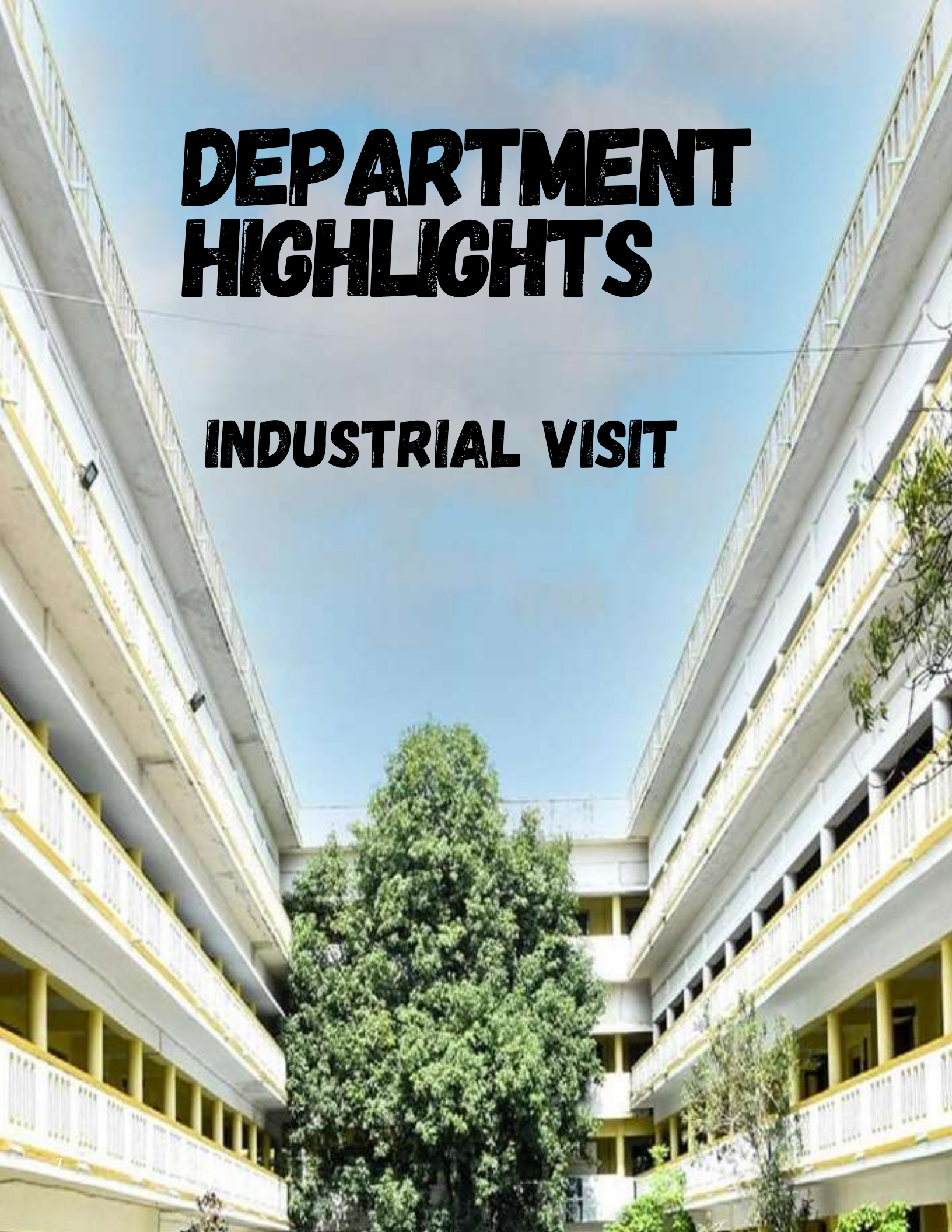
Entrepreneurship skill , attitude and Behaviour Development



**DR.KANNAN,
PROFESSOR ,HEAD IQAC , NLP COATCH , NEHRU
COLLEGE OF MANAGEMENT , COIMBATORE**

DEPARTMENT HIGHLIGHTS

INDUSTRIAL VISIT



SRI NARAYANI HOSPITAL AND RESEARCH INSTITUTE,VELLORE

BATCH :2020-2024



**DEPARTMENT OF
BIOMEDICAL
ENGINEERING**

**FACULTIES:
MAHALAKSHMI .N
AND
KANNAPERUMAL .T**



AARUPADAI VEEDU MEDICAL COLLEGE AND HOSPITAL (AVMC), PONDICHERRY



DEPARTMENT OF BIOMEDICAL ENGINEERING

**FACULTIES:
MANISHA .A AND
VENKATA SUBBAIAH PUTTA**



INTERNSHIPS





1.KVT HOSPITAL : 5

**2.DR.RELA INSTITUTE &
MEDICAL CENTRE:5**

3.MMM HOSPITAL:1

4.SRMC:4

5.APOLLO HOSPITAL:4

1.HYCARE SPECIALITY

HOSPITAL : 5

2.MGM HEALTH CARE :4

3.DEEPAM HOSPITAL:65

**4.TAMILNADU GOVT MULTISUPER
SPECIALITY HOSPITAL:1**

**5.DR.METHA MULTISPECIALTY
HOSPITAL:1**



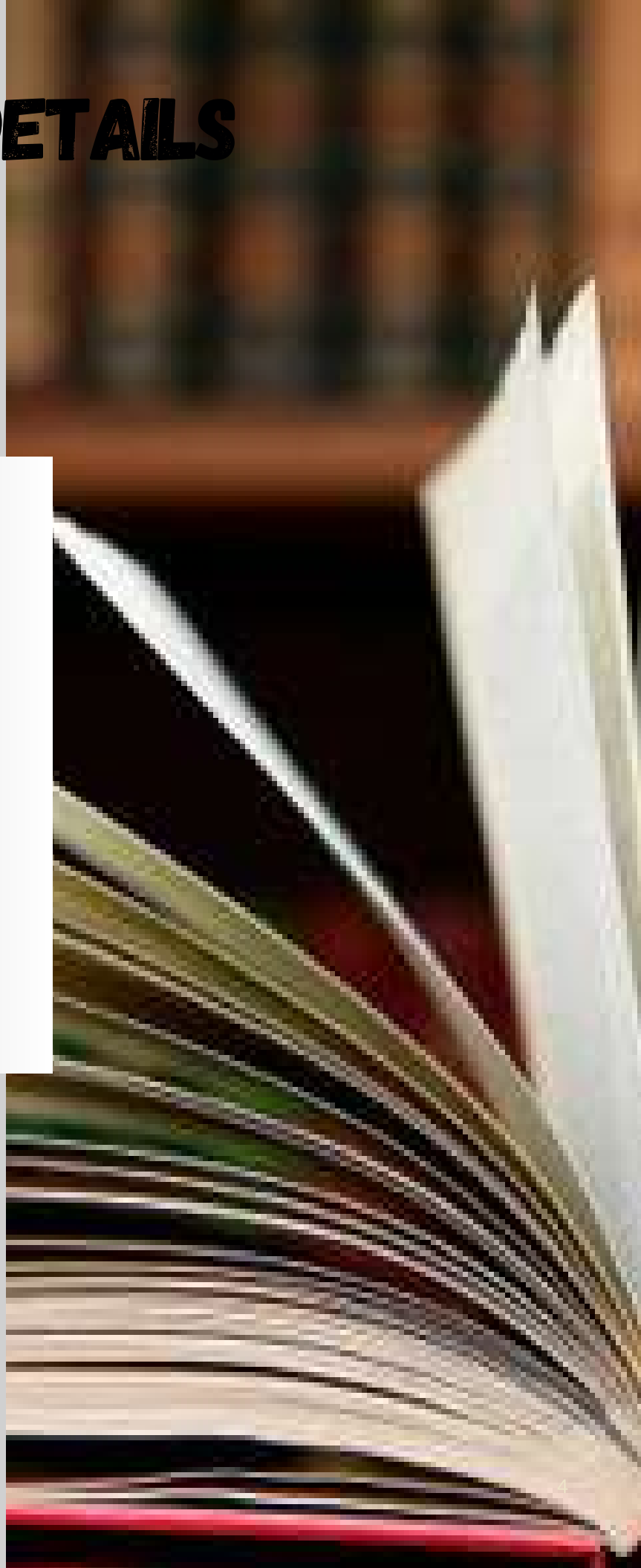
PLACEMENTS



S.NO	NAME	DEPT	NO OF OFFER	COMPANY
1	Abilash.A	BME	2	WIPRO,ACCENTURE
2	Anjali.D	BME	2	CTS,WIPRO
3	Deepanraj.V	BME	1	Episource
4	Girija.M	BME	1	Musigma
5	Japrish Vishwa.A	BME	1	Musigma
6	Krithik.V	BME	1	Healthwatch
7	Mohanraj.D	BME	1	Episource
8	Nlthish Kumar.B	BME	1	Episource
9	Jayasuriya.P	BME	1	Episource
10	Pradeep.A	BME	1	Episource
11	Prince.A	BME	1	CAPGEMINI
12	Rohith.V.S	BME	1	ACCENTURE
13	Santhiya.M	BME	2	CTS,DXC
14	Sophia Mary.V	BME	1	Asahi Technologies
15	Sridevi.V	BME	1	WIPRO
16	Thrishashini.S	BME	1	CTS
17	Vandhana.R	BME	1	Musigma
18	Prabu Ram.B	BME	1	Prayag consultancy
19	Balameena.S	BME	1	CTS
20	Jinola Jermi.J	BME	2	CTS,DXC
21	Kumaragurubaran.T.D	BME	1	Episource
22	Lakshmi Ram.P.S	BME	1	Musigma
23	Giriprasath.D	BME	1	CTS
24	Dhirsa Deva Jenifer.S	BME	2	CTS,DXC
25	Ragupathi.R	BME	1	Episource
26	Vigneshwaran.K	BME	1	Episource
27	Ramasubramaniyam.S	BME	1	Episource
28	Vikram.K	BME	2	Healthwatch, Episource
29	Baruhanudeen.N	BME	1	CTS
30	Nihitha.R	BME	1	DXC
31	Tamilanban Yazhini	BME	2	CTS,DXC

PUBLICATION DETAILS

**DEPARTMENT OF
BIOMEDICAL
ENGINEERING**



Author of the paper: Vappangi, S.Deepa, T.Mani, V.V., Bharathiraja, N.
Title of the paper: On the performance of delta sigma modulators for DCO-OFDM based NOMA visible light communication systems

Author of the paper: N. Bharathiraja, R. B. Indhuja, P. R. A. Krishnan, S. Anandhan and S. Hariprasad

Title of the paper: Real-Time Fall Detection using ESP32 and AMG8833 Thermal Sensor: A Non-Wearable Approach for Enhanced Safety





**FACULTY
NAME:**

A. MANISHA

**AUTHORS
OF THE
PAPER:**

**A. MANISHA; ARAVIND A
PRITHVI RAJ D; VINOOTH S
DARSHAN KUMAR N;
MOHAMED SABURAN A**

**TITLE OF
THE
PAPER:**

**A REVIEW BASED ON
CLASSIFYING REGULAR
AND IMPROPER
GASTROINTESTINAL
WAVES USING CNN**

**JOURNAL
NAME:**

**IEEE CONFERENCE
PUBLICATION _ IEEE
XPLORE ,ISBN:979-8-
3503-9926-4**



FACULTY NAME: K.NITHYAKALYANI

AUTHORS OF THE PAPER: K.NITHYAKALYANI,
M.C.JOBIN CHRIST

TITLE OF THE PAPER: ZNO QUANTUM DOTS @
NITROGEN AND SULFUR CO-
DOPED POROUS CARBON
NANOSHEETS FOR THE
DETECTION OF LUNG
CANCER BIOMARKERS IN
EXHALED BREATH

JOURNAL NAME: MATERIAL SCIENCE IN
SEMICONDUCTOR
PROCESSING , ISSN 1369-
8001