



NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

ERODE – 638 052 TAMILNADU

Department of Biomedical Engineering

NEC/BME/PAC-01/2023-24 (ODD)

DATE: 28.07.2023

CIRCULAR

Originator:

Chairman - PAC

Circulated to:

Members of PAC & All faculty members

Sub: Programme Assessment Committee (PAC) meeting:

The PAC meeting is scheduled on 01.08.2023 to discuss the agenda listed below. In this connection, all the PAC members are requested to attend the meeting.

Date & Time of Meeting: 01.08.2023 (11.00 AM)

Venue: HOD Cabin

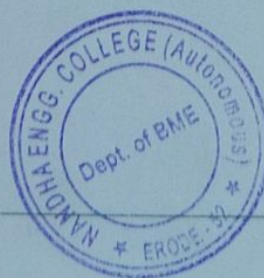
AGENDA

Item 2.01	Review of previous PAC meetings.
Item 2.02	Review of Zeroth Course Co-ordinator Meeting Minutes for all courses by heads of the department.
Item 2.03	Discussion on R22- I semester UG & PG all courses Result Analysis & PO, PSO attainment and Action to be taken for not attained PO's & PSO's.
Item 2.04	Discussion on R22 II semester CATI attainment and Action Taken Report for slow and advanced learners.
Item 2.05	Discussion on department activities plan - Co-curricular and extracurricular a
Item 2.06	Discussion on Placement and Training activities for III and IV year students.
Item 2.07	Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid sem feedback (I, II, III & IV year)- reports, analysis and action taken.
Item 2.08	Discussion on PBL Courses. (Selected Projects to be submitted to CiPD for Innovation day).
Item 2.09	Discussion on Research and development Activities (Fixing the target for Consultancy and Research grant).
Item 2.10	Discussion on PAD's form eligibility.

To

All members of PAC,

- ✓ ALL Faculty members
- ✓ File(O/o Head)




CHAIRMAN - PAC



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MINUTES OF THE PROGRAMME ASSESSMENT COMMITTEE MEETING

Name of the Body	PROGRAMME ASSESSMENT COMMITTEE (PAC)	
Department	Biomedical Engineering	
Meeting No.	01	2023-24
Date & Time	01.08.2023 & 11.00 AM	



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The proceedings of PAC started and the minutes of the meeting are recorded as follows:

The Chairman of the PAC Dr. M. Dhipa, HoD-BME, welcomed the members followed by the introduction of members.

Item 2.01 Review of previous PAC meetings.

The previous PAC meeting minutes were reviewed. There were no comments from members.

Item 2.02 Review of Zeroth Course Co-ordinator Meeting Minutes for all courses by heads of the department.

Dr. M. Dhipa presented the Zeroth Course Co-ordinator Meeting Minutes for all courses.

◆ **I YEAR / II SEM:**

S. No	YEAR /SEM	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY
1	I / II	22EYA02	PROFESSIONAL COMMUNICATION - II	Ms. K.M. Madhumitha [AP/English]
2	I / II	22MYB04	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Ms. P. Devi [AP/Maths]
3	I / II	22PYB03	SOLID STATE PHYSICS	Dr. T. Jayanalina [Prof/Physics]
4	I / II	22CSC02	DATA STRUCTURES USING C	Ms. A. Mageswari [AP/CSE]
5	I / II	22ECC04	ELECTRONIC DEVICES AND CIRCUITS (THEORY+LAB)	Ms. C. Saranya [AP/BME]
6	I / II	22GYA02	தமிழரும் தொழில்நுட்பமும் /TAMILS AND TECHNOLOGY	Ms. C. Saranya [AP/BME]
7	I / II	22CSP02	DATA STRUCTURES LABORATORY	Ms. A. Mageswari [AP/CSE]
8	I / II	22PYP01	PHYSICS LABORATORY	Dr. T. Jayanalina [Prof/Physics] Dr. K.S. Mohan [AP/Physics]
9	I / II	22MEP01	ENGINEERING GRAPHICS LABORATORY	Mr. M. Sengottaiyan [AP/Mech]

Discussion



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◆ III YEAR / V SEM:

S. No	YEAR/SEM	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY
1	III / V	17CYB03	ENVIRONMENTAL SCIENCE	Ms. M. Gomathi [AP/Chem]
2	III / V	17ECC16	ANALOG AND DIGITAL COMMUNICATION	Mr. A. Amarnath Prabhakaran [AP/BME]
3	III / V	17BMC04	BIO SIGNAL PROCESSING	Ms. C. Saranya [AP/BME]
4	III / V	17BMC05	BIOMEDICAL INSTRUMENTATION –I	Mr. A. Srithar [AP/BME]
5	III / V	17EYZ04	EMPLOYABILITY ENHANCEMENT AND ANALYTICAL SKILLS	Mr. R. Shankar [AP/BME]
6	III / V	17ITZ05	JAVA PROGRAMMING	Ms. Sharmila [AP/IT]
7	III / V	17BMP03	BIOSIGNAL PROCESSING LABORATORY	Ms. K. Thivyabrabha [AP/BME]
8	III / V	17BMP04	BIOMEDICAL INSTRUMENTATION-I LABORATORY	Ms. Sowparnika B [AP/BME]
9	III / V	17GED07	CONSTITUTION OF INDIA	Ms. K. Thivyabrabha [AP/BME]

◆ POINTS DISCUSSED:

1. Review of previous year performance: The target level was fixed by considering the previous batch attainment, nature of the course and the present batch student performance.
2. Review of syllabus, text books, reference books, COs, POs and PSOs.
3. Course plan: Academic calendar, Log book, Lecture plan, Time-table.
4. Assessment plan for theory, PBL, embedded and laboratory courses were discussed.
5. Course material to be uploaded in google classroom and teaching methods to be adopted for effective teaching.
6. Remedial actions to be taken for slow learners and activities planned for advanced learners.

Resolution Resolved to accept and put forth to DAB

Item 2.03 Discussion on R22- I semester UG & PG all courses Result Analysis & PO, PSO attainment and Action to be taken for not attained PO's & PSO's.

Discussion Dr. M. Dhipa presented R22- I semester UG & PG all courses Result Analysis & PO, PSO attainment and Action to be taken for not attained PO's & PSO's.



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◆ I YEAR(2022-26) / I SEM(2022-23) RESULT ANALYSIS:

SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NO OF STUDENTS APPEARED	NO OF STUDENTS PASSED	NO OF STUDENTS FAB	PASS PERCENTAGE
22EY01	Professional Communication-I	M.K.MADHURAMANI	52	50	2	96
22M001	Calculus and Linear Algebra	M.P.CEYANATHI	52	41	11	79
22CY01	Introduction to Microbiology	D.N.SARAVANAN	52	50	2	96
22CS01	Problem Solving and C Programming	M.DEEPJKACSE	52	39	12	77
22EC02	Basics of Electrical Instrumentation	D.M.DHIPA	52	40	12	77
22CP01	Engineering Practices Laboratory	M.S.SIVANANDH M.PAICHANDESWARI	51	51	-	100
22CS01	Problem Solving and C Programming Laboratory	M.DEEPJKACSE	52	51	1	98
22CY01	Chemistry Laboratory	D.N.SARAVANAN	51	51	-	100
22Y001	Heritage of Tamil	M.E.MADHURE	52	52	-	100
22Y002	Sahitya and Drama-I	M.K.MADHURAMANI	52	52	-	100
22M001	Sports and Fitness-I	M.E.MADHURE	52	52	-	100
			OVER ALL PASS PERCENTAGE	31 / 53	58.49%	

◆ ACTION TO BE TAKEN FOR NOT ATTAINED PO'S PSO'S:

SUBJECT NAME	STAFF NAME	ACTION TO BE TAKEN
Problem Solving and C Programming	M. Deepika [AP/CSE]	Inducing self-learning and assigning group tasks
Introduction to Biochemistry	Dr. N. Saravanan [ASP/CHEM]	Vitalize the session through videos and PPT
Basics of Electrical and Instrumentation Engineering	Dr. M. Dhipa [ASP/BME]	To conduct more practice on Unit I, II & III.

Resolution Resolved to accept and put forth to DAB

Item 2.04 Discussion on R22 II semester CATI attainment and Action Taken Report for slow and advanced learners.

Discussion Dr. M. Dhipa presented R22 II semester CATI attainment and Action Taken Report for slow and advanced learners.



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SNO	SUB CODE	SUBJECT NAME	STAFF NAME
1	22EYA01	PROFESSIONAL COMMUNICATION II	Ms.K.M.MADHUMITHA
2	22MYB02	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATION	Ms.P.DEVI
3	22CS02	DATA STRUCTURE USING C	Ms.A.MAGESWARI
4	22PYB03	SOLID STATE PHYSICS	Dr.T.JAYANALINA
5	22ECC04	ELECTRONICS DEVICES AND CIRCUITS	Ms.C.SARANYA

- ◆ Pass % in the following courses seemed too low.
 - ✓ TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATION [22MYB02] – 24%
 - ✓ ELECTRONIC DEVICES AND CIRCUITS [22ECC04] – 36%

Respective course handling faculty members were asked to analyze the reasons and take remedial measures to improve the academic performance.

- ◆ Identification of Slow Learners in I year and action taken

Students identified as slow learners were reviewed and faculty members are conducting Mock test and Home test to improvise their academic performance. Further it is informed to keep all documents related to slow learners in the respective course files which subjected to audit.

- ◆ Identification of Fast Learners in I year and action taken

Students are encouraged and motivated by faculty members to do NPTEL courses and actively participate in inter college co-curricular activities. Also, students are insisted to do participate in upcoming CiPD activities (Hackathon).

Resolution Resolved to record

Item 2.05 Discussion on department activities plan - Co-curricular and extracurricular activities.

Discussion

Dr. M. Dhipa presented department activities plan - Co-curricular and extracurricular activities.



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◆ IV YEAR STUDENTS CURRENTLY UNDERGOING INTERNSHIP:

S. No	STUDENT NAME	INTERNSHIP UNDERGOING COMPANY
1.	AATHI SRI S S	CARE 24 MEDICAL CENTRE AND HOSPITAL
2.	SAKTHIVEL P	
3.	PRASANTH M	
4.	KUMARESAN S	NANDHA MEDICAL HOSPITAL
5.	BHARANI M	
6.	ABISHEK M	
7.	MOHAMMED ASWATH L	
8.	MOHANPRASATH B	EMERTXE INFORMATION TECHNOLOGY

◆ PLANNED INTERNSHIPS:

- ✓ 15 DAYS - ADVANCE LEVEL TRAINING IN CORE BIOMEDICAL- PLACEMENT OPPORTUNITY PROVIDED - Medingers Healthcare Solutions, Erode.
- ✓ 15 DAYS - HOSPITAL TRAINING - BIOMEDICAL EQUIPMENT HANDLING - Medingers Healthcare Solutions, Erode.
- ✓ 10 DAYS - INTERMEDIATE LEVEL TRAINING IN CORE BIOMEDICAL- ATHEENAPANDIAN PRIVATE LTD., COIMBATORE.
- ✓ 15 DAYS - ADVANCED LEVEL TRAINING IN CORE BIOMEDICAL - ATHEENAPANDIAN PRIVATE LTD., COIMBATORE.
- ✓ 15 DAYS- EMBEDDED SYSTEM FOR BIOMEDICAL APPLICATION - REAL TECH SYSTEMS PERUNDURAI.

◆ EVENTS PLANNED:

- ✓ GUEST LECTURE ON MEDICAL CODING by BioXplora, Coimbatore on 04-08-2023.
- ✓ GUEST LECTURE ON PLACEMENT OPPORTUNITIES by Caliber Virtual Technologies India P Ltd. Erode on 18-04-2023.

◆ PLANNED MoUs

- ✓ Indian Biomedical Skill Consortium (IBSC) - Andhra Pradesh MedTech Zone (AMTZ), Visakhapatnam.

Resolution Resolved to record



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Item 2.06 Discussion on Placement and Training activities for III and IV year students.

Placement Co-Ordinator presented the Placement and Training activities for III and IV year students

◆ **IV YEAR - PLACEMENT DETAILS**

- ✓ No. of Willing – 40
- ✓ No. of Eligible – 31
- ✓ No. of Not Eligible – 09
- ✓ No. of Placed (eligible) – 04

◆ **PLACED STUDENTS DETAILS:**

- ✓ SWATHI K placed in ALAM SOFT with package of 4lacs / annum
- ✓ SUJAN K placed in OBJECT WAVES TECHNOLOGIES with a stipend of Rs.11,000
- ✓ LOGESHWARAN A placed in OBJECT WAVES TECHNOLOGIES with a stipend of Rs.11,000
- ✓ MONISH S placed in MEDVID HEALTH TECHNOLOGY

No. of yet to be Placed – 36

◆ **IV YEAR – TRAINING DETAILS**

Discussion

S. No	Activity	Date	Resource Person/Company	Target Audience	Outcome
1.	TCS Specific Training	03.07.2023 Till Date	Internal training through Examly	PLACEMENT WILLING STUDENTS (IV BME - 40 STUDENTS)	3 Months intensive training on TCS
2.	ZIFO Specific Training	20.07.2023 Till Date	Internal training through Examly	PLACEMENT WILLING STUDENTS (IV BME - 40 STUDENTS)	1 Months intensive training on ZIFO



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◆ PLACEMENT TRAINING SCHEDULE

TIMINGS	09.30 am to 12.30 pm	01.15pm to 02.15 pm	02.15 pm to 03.15 pm	03.30pm to 04.30pm	04.30pm to 06.20pm
SESSION DETAILS	TEST	DISCUSSION & DOUBT CLARIFICATION			RE-TEST
	Through Examly	Programming	Aptitude & Reasoning	Verbal	Through Examly

◆ III YEAR – TRAINING DETAILS

Placement Training will commence between September and October.

Resolution Resolved to accept and put forth to DAB

Item 2.07

Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid sem feedback (I, II, III & IV year)- reports, analysis and action taken.

Dr. M. Dhipa presented Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid sem feedback (I, II, III & IV year)- reports, analysis and action taken.

◆ CLASS COMMITTEE MEETING (CCM):

Faculties must provide sufficient time for assignment preparation.

◆ PARENTS MEETING:

Discussion

S. No	STUDENT NAME	YEAR	POINTS DISCUSSED
1.	SANJAY S M	I	<ul style="list-style-type: none"> • Avoid taking unnecessary leave. • Maintain Attendance Percentage. • Concentrate more in upcoming semesters and clear arrears.
2.	P.GOWTHAM	I	
3.	MAHESH KANNAN C	I	
4.	PALANISAMY S	I	
5.	ASWIN S L	I	
6.	GOWTHAMAN A	I	



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◆ ALUMNI MEETING:

S. No	ALUMNI DETAILS	CONDUCTED DATE	TARGET AUDIENCE	OUTCOME
1.	SANTHIYA A [Junior Software Developer/ALAMSOFT] SUGAMATHI A [Junior Software Developer/ZIFO]	19.07.2023	IV BME	Interacted with 2023 BATCH Alumni about the important aptitude topics and the duration they provide for it. The topics for logical reasoning and the round followed by were discussed. Also the selection process in the final round was clarified.
2.	PAVITHRAN L [Junior Software Developer / ALAMSOFT]	28.07.2023	III BME IV BME	Interacted with 2023 BATCH Alumni about various aspects of industries. For biomedical Engineer's what the opportunities available in outside. The various fields available for BME. How to get prepare for the interview. How important is self-learning. What are the qualities the industry looking from the freshers. How to fulfill the industry expectations

◆ MID SEM FEEDBACK (I YEAR):

- ✓ Feedback was reviewed and faculties insisted to try on various pedagogic teaching learning methods for effective TLP.

Resolution Resolved to accept and put forth to DAB

Item 2.08 Discussion on PBL Courses. (Selected Projects to be submitted to CiPD for Innovation day).

Discussion Dr. M. Dhipa presented the list of PBL Courses



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S. NO.	NAME OF THE SUBJECT WITH SUBJECT CODE	YEAR	SUBJECT HANDLING STAFF	PROPOSED PLAN
1	17BMC05 - Biomedical Instrumentation-I	III	Mr. A. Srihar [AP/BME]	Focused on min of 10 projects, out of which at least 1, to be converted as product.

Resolution Resolved to record.

Item 2.09 Discussion on Research and development Activities (Fixing the target for Consultancy and Research grant). 

Dr. M. Dhipa presented the Research and development Activities (Fixing the target for Consultancy and Research grant).

◆ **DEPARTMENT TARGET:**

CONSULTANCY	PUBLICATIONS	PATENT	PROJECT GRANT	FUNDING PROPOSAL
4 LAKHS	1 Publication / Faculty	5	1	5

Discussion

◆ **Paper Publications:**

- ✓ 1 Scopus indexed journal is published. Faculties are insisted to focus on publishing Scopus indexed /WoS indexed / UGC approved journals with good impact factor.

◆ **Consultancy:**

- ✓ 3 Lakhs target achieved in 2022-23.
- ✓ 4 Lakhs target is fixed for 2023-24.

◆ **Research/Seminar/Workshop/FDP grant proposal:**

- ✓ 2 Proposals submitted – DRDO & CSIR.

◆ **NPTEL course completion:**

- ✓ 2 Faculties have successfully completed in Elite grade.
- ✓ Also, faculties have registered for the courses relevant to handling subject, along with students as a part of guidance and periodic monitoring.

Resolution Resolved to accept and put forth to DAB



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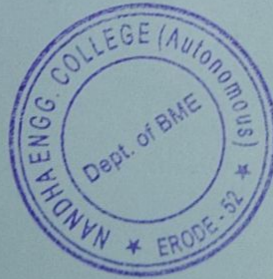
Item 2.10 Discussion on PAD's form eligibility.

Dr. M. Dhipa presented the Performance Appraisal and Development System (PADS) for Faculty Members.

Discussion

Eligibility Criteria	
Designation	Criteria
Professor	1 Scopus publication + Grant or Consultancy of Rs: 30,000 + 1 MoU with Industry
Associate Professor	1 Scopus publication + 1 FDP for 7 days or SWAYAM / NPTEL Courses (4 Weeks) / Certification of the Courses taught or to be taught through UDEMY + Grant or Consultancy of Rs: 15,000
Assistant Professor	1 Scopus publication + 1 FDP for 2 weeks or SWAYAM / NPTEL Courses (8 Weeks) / Certification of the Courses taught or to be taught through UDEMY

Resolution Resolved to record.





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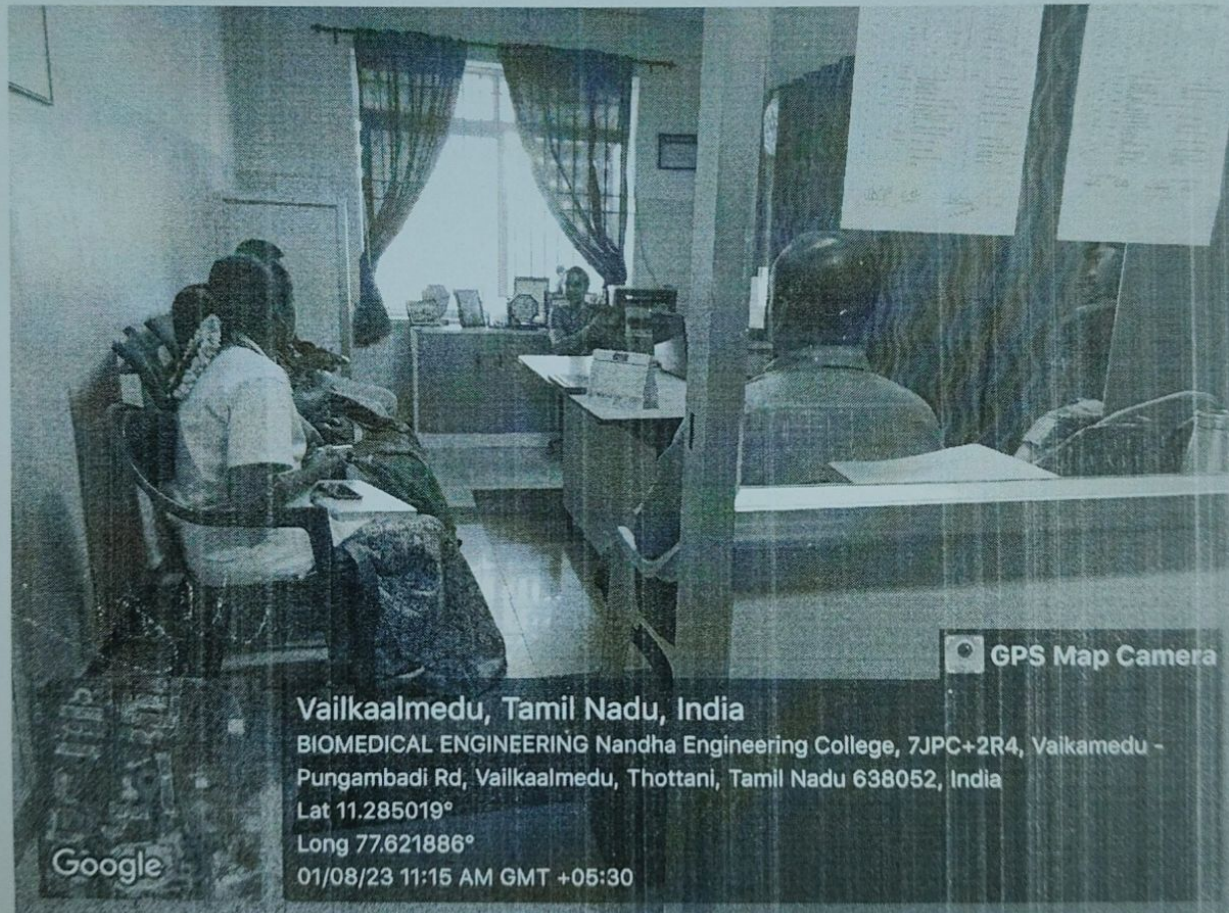
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Department of Biomedical Engineering

Programme Assessment Committee (PAC) meeting



GPS Map Camera

Vaikalmedu, Tamil Nadu, India

BIOMEDICAL ENGINEERING Nandha Engineering College, 7JPC+2R4, Vaikamedu -
Pungambadi Rd, Vaikalmedu, Thottani, Tamil Nadu 638052, India

Lat 11.285019°

Long 77.621886°

01/08/23 11:15 AM GMT +05:30

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PROGRAMME ASSESSMENT COMMITTEE

S. No	Members	Signature
1	Dr. M. Dhipa, Prof/ BME	
2	Dr. Gokila K, ASP/BME	
3	Dr. Jayakumar T, ASP/BME	
4	Mr. Amarnath Prabhakaran A, AP/BME	
5	Ms. K. K. Sangeetha, ASP/ BME	
6	Ms. V. T. Nithya, AP/ BME	
7	Ms. R. Arthi, AP/ BME	
8	Ms. B. Sowparnika, AP/ BME	
9	Mr. A. Srithar, AP/ BME	
10	Ms. C. Saranya, AP/ BME	
11	Ms. K. Thivyabrabha, AP/ BME	
12	Mr. Shankar R, AP/BME	
13	Ms. Devi, AP/ S&H	
14	Ms. Gayathri P [21BM014]	