



NANDHA ENGINEERING COLLEGE, ERODE – 638 052.
(An Autonomous Institution, Affiliated to Anna University Chennai and
Approved by AICTE New Delhi)

DEPARTMENT OF BIOMEDICAL ENGINEERING

NEC/BME/PAC-02/2023-24

DATE: 21.09.2023

CIRCULAR

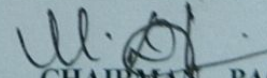
Originator: Chairman – PAC	Circulated to: Members of PAC & All faculty members
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The PAC meeting is scheduled on 22.09.2023 to discuss the agenda listed below. In this connection, all the PAC members are requested to attend the meeting.

Date & Time of Meeting: **22.09.2023 & 3.00 PM (Wednesday)**

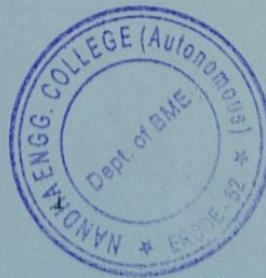
Venue: Block 4, BME – HOD Room

AGENDA	
Item 2.01	Welcome and introduction of members
Item 2.02	Review of the previous PAC meeting minutes
Item 2.03	Result Analysis and attainment of the even semester 2022-23, overall attainment of the 2023 pass out batch & fix target for the I year (2023-2027 batch)
Item 2.04	CAT-I Result and attainment analysis of 3rd and 4th year, identification of weak learners and corrective actions, advanced learners and activities for the learners
Item 2.05	Class Committee Meeting (CCM) reports and action taken
Item 2.06	Proctor meeting minutes and action taken reports
Item 2.07	Department academic plan and activities for (2023-2024) Odd Sem
Item 2.08	First year Student admission – Batch (2023-2027)
Item 2.09	Placement status of IV years, training schedule and performance of the student in IRS subjects of III years, I and II year IRS subject list and schedule
Item 2.10	Review of the activities involved in the department appraisal
Item 2.11	Any other matter


CHAIRMAN – PAC

To

1. All members of PAC
2. File (O/o Head)





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DEPARTMENT OF BIOMEDICAL ENGINEERING

MINUTES OF THE PROGRAMME ASSESSMENT COMMITTEE (PAC) MEETING

Meeting No.: 02	Date:22.09.2023	Time: 3.00 pm	Venue: Block – 4, BME – HOD Room	Year: 2023 - 2024
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The 2nd PAC meeting was held on 22.09.2023 by 3.00 pm at Block 4, BME – HOD Room. Then, the items listed below were taken for discussion. List of members attended the meeting is enclosed in Annexure – 1.

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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, Associate Professor - Head / BME welcomed the members for the meeting.

Item 2.01	Welcome and introduction of members.																																																																		
Discussion	Dr. M. Dhipa, Chairman – PAC introduced and welcomed the members followed by a brief note on functioning of PAC.																																																																		
Item 2.02	Review of the previous PAC meeting minutes																																																																		
Discussion	Dr. M. Dhipa, Chairman – PAC presented the previous PAC meeting minutes and ATR.																																																																		
Resolution	Resolved to approve the PAC meeting minutes.																																																																		
Item 2.03	Result Analysis and attainment of the even semester 2022-23, overall attainment of the 2023 pass out batch & fix target for the I year (2023-2027 batch).																																																																		
Discussion	<p>Dr. M. Dhipa , Chairman presented the result analysis of even semester 2022-23.</p> <p>Fair performance by students noticed in 2023-23 even semester result analysis. Unit wise Course Outcome attainment requires improvement.</p> <p>III YEAR - BATCH [2021-25] / IV SEM (2022-23)</p> <table border="1"> <thead> <tr> <th>Subject Code & Name</th> <th>Name of the Faculty</th> <th>No. of Appeared</th> <th>No. of Passed</th> <th>No. of Absent</th> <th>Pass %</th> </tr> </thead> <tbody> <tr> <td>17MYB09 - Probability and Random Processes</td> <td>Mrs. P. Devi [AP/Maths]</td> <td>31</td> <td>26</td> <td>6</td> <td>83.9</td> </tr> <tr> <td>17ECC07 - Signals and Systems</td> <td>Mrs. E. Madura [AP/BME]</td> <td>31</td> <td>29</td> <td>3</td> <td>93.5</td> </tr> <tr> <td>17ECC11 - Analog Circuit Design</td> <td>Mr. M. Srinevasan [AP/ECE]</td> <td>31</td> <td>31</td> <td>1</td> <td>100</td> </tr> <tr> <td>17BMC02 - Sensors and Signal Conditioning</td> <td>Dr. M. Dhipa [ASP/BME]</td> <td>31</td> <td>31</td> <td>1</td> <td>100</td> </tr> <tr> <td>17BMC03 - Bio Control Systems</td> <td>Mrs. K. Thivya Prabha [AP/BME]</td> <td>31</td> <td>28</td> <td>4</td> <td>90.3</td> </tr> <tr> <td>17ITC08 - Fundamentals of Java Programming</td> <td>Mrs. Saranya [AP/IT] Mrs. D. Kiruthika [AP/IT]</td> <td>31</td> <td>31</td> <td>1</td> <td>100</td> </tr> <tr> <td>17ECP06 - Analog and Circuit Design Laboratory</td> <td>Mr. M. Srinevasan [AP/ECE] Mr. Logamoorthy [AP/ECE]</td> <td>31</td> <td>31</td> <td>1</td> <td>100</td> </tr> <tr> <td>17BMP02 - Sensors and Signal Conditioning Laboratory</td> <td>Mrs. C. Saranya [AP/BME]</td> <td>31</td> <td>31</td> <td>1</td> <td>100</td> </tr> <tr> <td>17GED01 - Soft Skills - Listening and Speaking</td> <td>Ms.M.Madhumitha [AP/English]</td> <td>31</td> <td>31</td> <td>0</td> <td>100</td> </tr> <tr> <td>17GED03 - Personality and Character Development</td> <td>Mrs. Sowparnika B [AP/BME]</td> <td>31</td> <td>31</td> <td>0</td> <td>100</td> </tr> </tbody> </table>	Subject Code & Name	Name of the Faculty	No. of Appeared	No. of Passed	No. of Absent	Pass %	17MYB09 - Probability and Random Processes	Mrs. P. Devi [AP/Maths]	31	26	6	83.9	17ECC07 - Signals and Systems	Mrs. E. Madura [AP/BME]	31	29	3	93.5	17ECC11 - Analog Circuit Design	Mr. M. Srinevasan [AP/ECE]	31	31	1	100	17BMC02 - Sensors and Signal Conditioning	Dr. M. Dhipa [ASP/BME]	31	31	1	100	17BMC03 - Bio Control Systems	Mrs. K. Thivya Prabha [AP/BME]	31	28	4	90.3	17ITC08 - Fundamentals of Java Programming	Mrs. Saranya [AP/IT] Mrs. D. Kiruthika [AP/IT]	31	31	1	100	17ECP06 - Analog and Circuit Design Laboratory	Mr. M. Srinevasan [AP/ECE] Mr. Logamoorthy [AP/ECE]	31	31	1	100	17BMP02 - Sensors and Signal Conditioning Laboratory	Mrs. C. Saranya [AP/BME]	31	31	1	100	17GED01 - Soft Skills - Listening and Speaking	Ms.M.Madhumitha [AP/English]	31	31	0	100	17GED03 - Personality and Character Development	Mrs. Sowparnika B [AP/BME]	31	31	0	100
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17BMI03 – LABVIEW for Biomedical Applications	Mr. A. Amarnath Prabhakaran [AP/BME]	31	31	0	100
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CURRENT SEM PASS PERCENTAGE	24/31	74.20%
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OVER ALL PASS PERCENTAGE	20/31	64.50%
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IV YEAR – BATCH[2020-24] / VI SEM (2022-23)

Subject Code & Name	Name of the Faculty	No. of Appeared	No. of Passed	No. of Absent	Pass %
17ECC13 - Microprocessors and Microcontrollers Interfacing	Mr. A. Amarnath Prabhakaran [AP/BME]	53	53	0	100
17BMC06 - Medical Image Processing	Mrs.K.Thivysrabha [AP/BME]	53	53	0	100.0
17BMC07 - Biomedical Instrumentation- II	Mrs. Sowparnika B [AP/BME]	53	52	1	98.1
17BMX01 - Biomaterials	Mrs. E. Madura [AP/BME]	53	53	0	100.0
17ECP08 - Microprocessors and Microcontrollers Interfacing Laboratory	Mr. A. Amarnath Prabhakaran [AP/BME]	53	53	0	100.0
17BMP05 - Biomedical Instrumentation- II Laboratory	Mrs. Sowparnika B [AP/BME] Mrs.K.Thivysrabha [AP/BME]	52	52	0	100.0
17EYZ04 - Employability Enhancement and Analytical Skills	Mr. A. Srithar [AP/BME]	40	40	0	100.0
17EYX01 - Effective Communication	Mr. A. Srithar [AP/BME]	40	40	0	100
17CSX31 - Problem Solving and Programming	Mr. A. Srithar [AP/BME]	40	40	0	100.0
17GEA03 - Total Quality Management	Mr. A. Amarnath Prabhakaran [AP/BME]	13	13	0	100.0
17BMX03 - Telehealth Technology	Mrs.C.Saranya [AP/BME]	13	12	1	92.3

17GED06 - Comprehension	Mr. A. Amarnath Prabhakaran [AP/BME]	53	53	0	100
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CURRENT SEM PASS PERCENTAGE	51/53	96.2%
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OVER ALL PASS PERCENTAGE	50/53	94.3%
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Overall attainment of the 2023 pass out batch & fix target for I year (2023-2027 batch was also discussed).

OVERALL ATTAINMENT – BATCH [2019-2023]

Target fixed for [2019-2023] Batch: 67%

Target Attainment is fixed as **70%** for I year [2023-27] Batch.

Resolution Resolved to record

Item 2.04 CAT-I Result and attainment analysis of 3rd and 4th year, identification of slow learners and corrective actions, advanced learners and activities for the advanced learners.

Discussion Dr. M. Dhipa , Chairman presented the CAT-I result analysis.

III YEAR [2021-25] / V SEM (2023-24)

Course Code	Course Title	Staff Name	Pass %
17CYB03	Environmetal Science	Ms. Gomathi [AP/CHEM]	93.55
17ECC16	Analog and Digital Communication	Mr. A. Amarnath Prabhakaran [AP/BME]	70.97
17BMC04	Biosignal Processing	Ms. C. Saranya [AP/BME]	96.77
17BMC05	Biomedical Instrumentation - I	Mr. A. Srihar [AP/BME]	64.52
17GED07	Constitution of India	Ms. K. Thivyabrabha [AP/BME]	100.00

Comparatively, courses with less pass percentage are:

- 17BMC05-Biomedical Instrumentation – I
- 17ECC16-Analog and Digital Communication

Faculties were asked to take remedial measures to improve attainment rate.

SLOW LEARNERS AND CORRECTIVE ACTIONS:

Initiatives taken:

- Discussed on the Barriers he/she

- faced while studying,
- Advised to clear the backlogs.
- Periodic tests, assignments given by faculties.
- Periodic Monitoring of their activities.

ADVANCED LEARNERS AND ACTIVITIES FOR ADVANCED LEARNERS:

Initiatives taken:

- Guidance provided to do online courses through various platforms like Infosys Springboard, Future Skills, Scilab, edX, Coursera, class central, LinkedIn.
- Encouraged to do journal, patent publications, industry internships.
- Motivated for innovation and product development and concentrate more on placement.
- Discussed various ideas for participation in Hackathons.

Resolution Resolved and approved by the PAC members.

Item 2.05 Class Committee Meeting (CCM) reports and action taken.

Discussion Dr. M. Dhipa, Chairman – PAC discussed the ATR of Class Committee Meeting reports.

NATURE OF FEEDBACK	CLASS	ACTION TAKEN
Students were requested for Industrial Visit	I	Planned to take industrial visit in II year
Every subject handling faculty members assignment submission dates overlap	I	Informed to course handling faculty members
All students anticipated a preference for CiPD activities and project work	I	As the academic performance of the students is not satisfied, only fast learners are assigned with CiPD activities and project work. Based on the academic performance improvement, the activities will be assigned in II year.
EDC Lab components were not working properly.	I	Intimation was given to the concerned lab in-charge. Also insisted to rectify the problem before end sem practical examination.

Resolution Resolved to approve and recorded.

Item 2.06 Proctor meeting minutes and action taken reports.

Discussion Dr. M. Dhipa – Chairman, presented the ATR of proctor meeting minutes conducted on 16.09.2023

for I, II, III & IV year students.

- **ACADEMIC ACTIVITIES:**

- ✓ I year students were narrated with the teaching – learning methods and assessment procedures for preparing themselves.
- ✓ End Sem result, CAT result & attendance percentage were discussed with II, III & IV year students. Students were motivated for better performance and guidelines provided for enhancement.

- **CO – CURRICULAR ACTIVITIES:**

- ✓ Importance of co-curricular activities were put forth to the I year students and encouraged active participation.
- ✓ II & III year students were appreciated for active participation in project expo event and hackathons. Motivated for better performance.
- ✓ IV year students were encouraged to participate in conferences and publish journals.

- **EXTRA – CURRICULAR ACTIVITIES:**

- ✓ Extra-curricular activities enlisted to I year students for their prudential involvement in upcoming years.
- ✓ II & III year students were appreciated for their effective participation. Pointed out the importance of co-curricular activities to strengthen resume and gain exposure. Discussed on technical events being conducted in various other colleges. Encouraged students to utilize the PBL projects for presentations. Discussed on various projects to be completed for upcoming Innovation Day.

- **COUNSELLING:**

- ✓ General points like adhering to class timings, timely arrival to college, following proper dress code, submission works, etc. were discussed with students.

Resolution Resolved to record

Item 2.07 Department academic plan and activities for (2023-2024) Odd Sem.

Discussion Dr. M. Dhipa – Chairman, enumerated the department activities planned for (2023-24) odd sem.

Activities Planned	Estimated Date
CALIBER TECHNOLOGIES – MoU	Sep 2023
III BME – Industrial Visit	Sep 2023
Alumni Meet	Sep & Oct 2023
PRASHAN TECHNOLOGIES - MoU Renewal	Oct 2023
II BME – Industrial Visit	Oct 2023
AMTZ Industry interaction & MoU	Nov 2023
Bionics Club activities	Monthly twice

Resolution Resolved to approve the list of activities.

Item 2.08 First year Student admission – Batch [2023-2027].

Discussion Dr. M. Dhipa – Chairman, presented the admission details of I year [2023-27] Batch students.
Department Intake: 60

Total No. of Students admitted: 60

Government Quota	Management Quota
42	18

Cut off Range of students:

Round 1: 178; Round 2: 158 – 142; Round 3: 140.5 – 105.

Resolution Resolved to record the admission status.

Item 2.09

Placement status of IV years, training schedule and performance of the student in IRS subjects of III years, I and II year IRS subject list and schedule.

Discussion

◆ Placement coordinator presented the placement status of IV years.

IV YEAR PLACEMENT STATUS:

List of placed students with their salary package as follows,

S.No	Name of the Student	Company Name	Core / IT	Salary Package
1	SWATHI K	ALAM SOFT	IT	3.5 LPA
2	SAKTHIVEL K	MALLOW TECHNOLOGY	IT	4.2 LPA
3	MONISH S	MEDVID HEALTH TEC, CHENNAI	CORE	1.2 LPA
4	SUJAN K	OBJECTWAYS TECHNOLOGIES	IT	1.32 LPA
5	ABISHEK S	OBJECTWAYS TECHNOLOGIES	IT	1.32 LPA
6	MOHAN KUMAR M	OBJECTWAYS TECHNOLOGIES	IT	1.32 LPA
7	MOWLEESWARAN V	OBJECTWAYS TECHNOLOGIES	IT	1.32 LPA
8	LOGESWARAN A	JS HEALTH CARE, BANGALORE	CORE	1.44 LPA
9	VASANTH M	CARNA MEDICARE, CHENNAI	CORE	1.44 LPA
10	SHEIKCHAN M	CARNA MEDICARE, CHENNAI	CORE	1.44 LPA
11	SELVARAJ R	OBJECTWAYS TECHNOLOGIES	IT	1.32 LPA
12	JEEVANANTHAM S	OBJECTWAYS TECHNOLOGIES	IT	1.32 LPA
13	HARIHARASUDHAN S	OBJECTWAYS TECHNOLOGIES	IT	1.32 LPA
14	ABISHEK M	PRABHA IMPEX	CORE	1.44 LPA
15	AATHI SRI S S	MEDITECH SOLUTIONS	CORE	0.76 LPA

◆ IRS coordinator presented the performance of III year students in the IRS subjects and schedule list of I & II year IRS subjects.

III YEAR - IRS SUBJECT PERFORMANCE:

Subject CODE & NAME: 17EYZ04 - Employability Enhancement and Analytical Skills (Aptitude & Reasoning).

➤ In the training sessions,

- 16 students had scored in the range of 76-100 marks.
- 11 students had scored in the range of 51-75 marks.
- 3 students had scored in the range of 26-50 marks.

- 1 student has scored in the range of 0-25 marks.
- In Assessment I,
 - 5 students had scored in the range of 51-75 marks.
 - 26 students had scored in the range of 26-50 marks.

I & II YEARS - IRS SUBJECT SCHEDULE:

Year	Communication/ Verbal Slot	Aptitude & Reasoning Slot	Programming Slot
I	22EYA01 Professional Communication - I DATE: 17.10.2023 - 31.10.2023 (10 Days) HANDLING FACULTY Ms. K M Madhumitha / ENG Ms. K S Punithasree / ENG	22MAN02 Soft/Analytical Skills - I DATE: 09.10.2023 - 16.10.2023 (6 Days) 01.11.2023 - 04.11.2023 (4 Days) HANDLING FACULTY Mr. R Shankar / BME	22CSC01 Problem Solving and C Programming & 22CSP01 Problem Solving and C Programming Laboratory DATE: THEORY SLOT: 16.11.2023 08.12.2023 (20 Days) LAB SLOT: 27.11.2023 - 08.12.2023 (11 Days) HANDLING FACULTY Mr. A Srithar / BME
II	22MAN07 Soft/Analytical Skills - III DATE: 27.11.2023 - 01.12.2023 (5 Days) HANDLING FACULTY Ms. Abirami / ENG	22MAN07 Soft/Analytical Skills - III DATE: 14.11.2023 - 25.11.2023 (10 Days) HANDLING FACULTY Mr. R Shankar / BME	ADD ON COURSE DATE: 03.11.2023 - 10.11.2023 (7 Days)

Resolution Resolved to approve and record the performance.

Item 2.10 Review of the activities involved in the department appraisal.

Discussion Dr. M. Dhipa, Chairman discussed on the activities involved in the department appraisal as per criteria as follows:

NPTEL COURSE COMPLETION:

✓ 2 faculty members have successfully completed NPTEL course and 1 faculty with Elite.

SCOPUS PUBLICATIONS:

✓ 2 faculty members have published Scopus indexed papers.

FACULTY DEVELOPMENT PROGRAM:

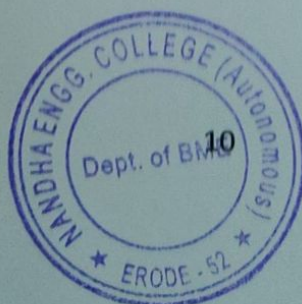
✓ All faculties have effectively participated in FDPs.

Faculties those who have not accomplished the activities involved for appraisal as per criteria based on their designation are asked to fulfill within the stipulated time period.

Resolution	Resolved to record in the department PADS.
Item 2.11	Any other matter
	<ul style="list-style-type: none"> • Faculties were asked to engross in R&D activities. • Points discussed on students' requirements, academic improvement and disciplinary issues. • Ideas on up bringing notable projects were also discussed.



Date: 05-10-2023



[Signature]
 CHAIRMAN - PAC / BME



NANDHA ENGINEERING COLLEGE, ERODE – 638 052
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Approved by AICTE New Delhi)

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]	