



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/DAB-02/2022-23 (EVEN)

DATE: 21.03.23

CIRCULAR

Originator: Chairman - DAB	Circulated to: Members of DAB & All faculty members
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Sub: Departmental Advisory Board (DAB) meeting:

The DAB meeting is scheduled on 31.03.2023 to discuss the agenda listed below. In this connection, all the DAB members are requested to attend the meeting.

Date & Time of Meeting: 31.03.2023 (02.30 PM)

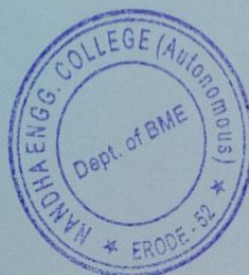
Venue: Online Mode (Link: <http://meet.google.com/xni-nhtd-cqd>)

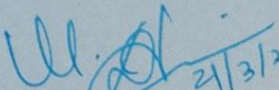
AGENDA	
Item 2.01	Review of the previous PAC meeting minutes
Item 2.02	Review on Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs, if required.
Item 2.03	Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid sem feedback (II, III & IV year)-reports, analysis and action taken.
Item 2.04	Discussion on R22 curriculum (including verticals for Honors and Minors) and draft syllabus of III & IV semester, CO-PO/PSO mapping, analysis and action taken for the feedback received from experts (Industry/Academia/Alumni).
Item 2.05	Discussion on department activities - Research and Development (Consultancy, Publications, Patent, Proposals - Seminar/Workshop/Research grant)
Item 2.06	Discussion on Result Analysis and Attainment of the CO – PO/ PSO (Target fixed and attained) of 2022 passed out batch students and action taken.
Item 2.07	Discussion on Result Analysis and Attainment of the CO – PO/ PSO (Target fixed and attained) for the ODD semester of the academic year 2022-23 (II, III & IV year)
Item 2.08	Discussion on Department activity plan for the Even semester of the academic year 2022-2023.
Item 2.09	Any other matter (if any)

To

All members of DAB,

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




21/3/23
CHAIRMAN - DAB



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Department of Biomedical Engineering

MINUTES OF THE DEPARTMENTAL ADVISORY BOARD MEETING

Name of the Body	DEPARTMENTAL ADVISORY BOARD (DAB)	
Department	Biomedical Engineering	
Meeting No.	02	2022-23
Date & Time	31.03.2023 & 02.30 PM	



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

The Chairman of the DAB Dr. M. Dhipa, HoD-BME, welcomed the External Members,

- **Academic Expert:**

Dr. R. Vanithamani,

Professor - Department of Biomedical Instrumentation Engineering,

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.

- **Industrial Expert:**

Mr. Boopathi Sakthivel

Founder, CEO & Biomedical Engineer,

Prashan Medical Technologies, Coimbatore.

followed by the introduction of members.

Item 2.01	Review of the previous PAC meeting minutes
	The previous PAC meeting minutes were reviewed. There were no comments from members.
Item 2.02	Review on Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs, if required.
Discussion	Dr. M. Dhipa presented the Institute Vision & Mission and Department Vision, Mission, PEOs & PSOs.
Item 2.03	Discussion on Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid sem feedback (II, III & IV year) - reports, analysis and action taken.
Discussion	<p>Dr. M. Dhipa presented the Feedback collected - Class Committee Meeting (CCM), parents meeting, Alumni and Mid sem feedback (II, III & IV year) - reports, analysis and action taken.</p> <ul style="list-style-type: none">• Faculties those who attained average of > 3, were asked to turn hand on inculcating students with new technologies, encourage them in publications, project presentations, etc...• Faculties those who attained average of < 3, were asked to improvise their teaching learning techniques. <p>➤ Ms. V.T.Nithya [AP/BME] ➤ Mr. D. Kalyanasundaram [AP/BME] ➤ Ms. R. Arthi [AP/BME]</p>



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Resolution	Resolved to record															
Item 2.04	Discussion on R22 curriculum (including verticals for Honors and Minors) and draft syllabus of III & IV semester, CO-PO/PSO mapping, analysis and action taken for the feedback received from experts (Industry/Academia/Alumni).															
Discussion	Dr. M. Dhipa presented the R22 curriculum (including verticals for Honors and Minors) and draft syllabus of III & IV semester, CO-PO/PSO mapping, analysis and action taken for the feedback received from experts (Industry/Academia/Alumni).															
	<table border="1"><thead><tr><th>NAME OF THE COURSE</th><th>SEM</th><th>SUGGESTIONS GIVEN</th></tr></thead><tbody><tr><td>Sensors and Measurements</td><td>III</td><td>Unit II – Replace Oxygen electrode and CO2 electrode as Sensors</td></tr><tr><td>Biomedical Instrumentation Laboratory</td><td>IV</td><td>Experiment 11 - Study on SPO2, the study experiment can be given as a working one.</td></tr></tbody></table>	NAME OF THE COURSE	SEM	SUGGESTIONS GIVEN	Sensors and Measurements	III	Unit II – Replace Oxygen electrode and CO2 electrode as Sensors	Biomedical Instrumentation Laboratory	IV	Experiment 11 - Study on SPO2, the study experiment can be given as a working one.						
	NAME OF THE COURSE	SEM	SUGGESTIONS GIVEN													
Sensors and Measurements	III	Unit II – Replace Oxygen electrode and CO2 electrode as Sensors														
Biomedical Instrumentation Laboratory	IV	Experiment 11 - Study on SPO2, the study experiment can be given as a working one.														
External members appreciated the prudent syllabus framing.																
Resolution	Resolved to record															
Item 2.05	Discussion on department activities - Research and Development (Consultancy, Publications, Patent, Proposals - Seminar/Workshop/Research grant)															
Discussion	Dr. M. Dhipa presented the department activities - Research and Development (Consultancy, Publications, Patent, Proposals - Seminar/Workshop/Research grant)															
	<ul style="list-style-type: none">◆ Consultancy:<table border="1"><thead><tr><th>Date</th><th>Amount Generated (Rs.)</th><th>Name of the Industry</th></tr></thead><tbody><tr><td>28.11.2022</td><td>48,000</td><td>Kaar Infotech Pvt. Ltd., Erode.</td></tr><tr><td>31.01.2023</td><td>84,000</td><td>Kaar Infotech Pvt. Ltd., Erode.</td></tr><tr><td>10.03.2023</td><td>1,30,000</td><td>Kaar Infotech Pvt. Ltd., Erode.</td></tr><tr><td>24.03.2023</td><td>25,000</td><td>Prashan Medical Technologies, Coimbatore.</td></tr></tbody></table>	Date	Amount Generated (Rs.)	Name of the Industry	28.11.2022	48,000	Kaar Infotech Pvt. Ltd., Erode.	31.01.2023	84,000	Kaar Infotech Pvt. Ltd., Erode.	10.03.2023	1,30,000	Kaar Infotech Pvt. Ltd., Erode.	24.03.2023	25,000	Prashan Medical Technologies, Coimbatore.
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24.03.2023	25,000	Prashan Medical Technologies, Coimbatore.														
<ul style="list-style-type: none">◆ Publications:<ul style="list-style-type: none">✓ Dr. M. Dhipa, “Modified Aquila Optimization based Route Planning Model for Unmanned Aerial Vehicles Networks”, Proceedings of the International Conference on Automation, Computing and Renewable Systems (ICACRS 2022), IEEE Xplore, ISBN: 978-1-6654-6084-2 (Scopus Indexing).◆ Patents:<ul style="list-style-type: none">✓ Ms. B. Sowparnika, “Emission-Free Embedded Based Vehicle with Solar Charging” (Utility Patent Published on 19.12.2022).✓ Mr. A. Srithar, “Artificial Intelligence based Approach for Classification of Nano-material based																



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on their Efficacy in Treating Breast Cancer" (Utility Patent Published on 24.02.2023).

- ◆ Discussed to apply funding proposals for various funding agencies.

Resolution Resolved to record

Item 2.06 Discussion on Result Analysis and Attainment of the CO – PO/ PSO (Target fixed and attained) of 2022 passed out batch students and action taken.

Discussion Dr. M. Dhipa presented the Result Analysis and Attainment of the CO – PO/ PSO and target is fixed as 67%.

Resolution Resolved to record

Item 2.07 Discussion on Result Analysis and Attainment of the CO – PO/ PSO (Target fixed and attained) for the ODD semester of the academic year 2022-23 (II, III & IV year)

Dr. M. Dhipa presented the Result Analysis and Attainment of the CO – PO/ PSO (Target fixed and attained) for the ODD semester of the academic year 2022-23 (II, III & IV year)

- ◆ **II Year/ III Sem:**

Discussion

SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NO OF APPEARED	NO OF PASSED	NO OF ABSENT & FAIL	PASS PERCENTAGE
17MEB05	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	Mr. P. DEVI [AP Maths]	32	30	2	93.75
17ECC23	BASICS OF ELECTRICAL ENGINEERING	Mr. A. SRITHAR [AP/BME]	32	27	5	84.375
17MEC23	ENGINEERING MECHANICS FOR BIOMEDICAL ENGINEERS	Dr. B. ASHOK KUMAR [Prof/MECH]	32	30	2	93.75
17ITC03	DATA STRUCTURES AND ALGORITHMS	Ms. R. SARANYA [AP/IT]	32	32	0	100
17ECC06	DIGITAL LOGIC DESIGN	Dr. M. DHIPA [ASP/BME]	32	31	1	96.875
17BMC01	ANATOMY AND HUMAN PHYSIOLOGY	Mrs. SOWPARNIKA B [AP/BME]	32	29	3	90.625
17ECP03	DIGITAL LOGIC DESIGN LABORATORY	Mr. A. SRITHAR [AP/BME]	32	32	0	100
17BMP01	HUMAN PHYSIOLOGY	Mrs. M. NIVETHITHA [AP/BME]	32	32	0	100
17GED02	SOFT SKILLS - READING & WRITING	Mrs. T. THIVYA [AP/ENG]	32	32	0	100
17BMD02	MEDICAL EQUIPMENT AND ITS CALIBRATION	Mr. A. AMARNATHPRABHAKARAN [AP/ECE]	32	30	2	93.75



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◆ III Year/ V Sem:

SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NO OF STUDENTS APPEARED	NO OF STUDENTS PASSED	NO OF STUDENTS ABSENT & FAIL	PASS PERCENTAGE
17CYB03	Environmental Science	Ms.M.GONATHI/AP/CHEM	53	53	0	100
17GEA02	Principles of Management	Mr.A.SRITHAR/AP/BME	52	46	7	88.5
17ECC16	Analog and Digital Communication	Mr.A.AMARNATH PRABHAKARAN/ECE	53	51	2	96.2
17BMC04	Biosignal Processing	Mrs. M. NIVETHITHA/BME	53	50	3	94.3
17BMC05	Bio Medical Instrumentation-I	Mrs. B. SOWPARNIKA/BME	53	52	1	98.1
17MEK36	Bio Mechanics	Dr. M. MANKANDAN/MECH	53	49	4	92.5
17BMP03	Biosignal Processing Laboratory	Mrs. M. NIVETHITHA/BME	53	53	0	100
		Mrs. E.MADURA/BME				
17BMP04	Biomedical Instrumentation-I Laboratory	DR.DHIPA/BME	53	53	0	100
		Mrs. B. SOWPARNIKA/BME				
17GED07	Constitution Of India	Mrs. E.MADURA/BME	53	53	0	100

◆ IV Year/ VII Sem:

SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NO OF STUDENTS APPEARED	NO OF STUDENTS PASSED	NO OF STUDENTS ABSENT & FAIL	PASS PERCENTAGE
17BMC06	Medical Imaging Techniques	Dr.P.Sujana	36	34	2	94
17BMC09	Rehabilitation Engineering	Mrs.M.Nivethitha	36	36	-	100
17BMC04	Artificial organs and Implants	Mrs.E.Madura	36	35	1	97
17GEA04	Professional Ethics and Human Values	Mr.A.Amarnath/Prabhakaran	36	36	-	100
17CH201	Waste Water Treatment (OE)	Mr.S.Pandiaraj/Chemical	4	4	-	100
17CE205	Waste Management (OE)	Mr.Yashwanth/Civil	1	1	-	100
17PY201	Nanomaterials (OE)	Dr.V.Thirumala/Physics	9	9	-	100
17EY205	Workplace Communication (OE)	Ms.P.Padmalalini/Dr.M.Muthu/English	4	4	-	100
17CS201	Software Engineering (OE)	Mr.C.Ashwin/AIIT	18	18	-	100
17BMP06	Hospital Internship	Mr.A.Amarnath/Prabhakaran	36	36	-	100
17BMC01	Project work-I	Dr.P.Sujana	36	36	-	100



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♦ Summary:

YEAR	CURRENT SEM PASS %	OVERALL PASS %
II	71.87%	62.5%
III	81.1%	79 %
IV	92%	92%

Resolution Resolved to record

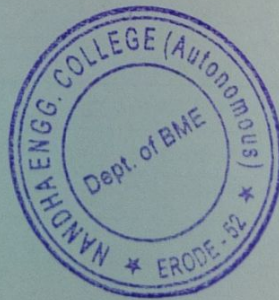
Item 2.08 Discussion on Department activity plan for the Even semester of the academic year 2022-2023.
Dr. M. Dhipa presented the Department activity plan for the Even semester of the academic year 2022-2023.

Discussion

S. No.	Date & Day	Name of the Event
1	06.02.2023 Tuesday	Alumni Interaction
2	10.02.2023 Saturday	Signing of MoU
3	10.02.2023 Saturday	Seminar (MoU Activity)
4	12.02.2023 Monday	Local Industrial Visit
5	22.02.2023 Thursday	Alumni Interaction
6	02.03.2023 Saturday	Alumni Interaction
7	11.03.2023 Monday	Signing of MoU

Resolution Resolved to accept

Item 2.09 Any other matter - NIL



CHAIRMAN - DAB



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DEPARTMENTAL ADVISORY BOARD MEETING

