

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/CIR/PAC-1/2022

Date: 14.06.2022

CIRCULAR

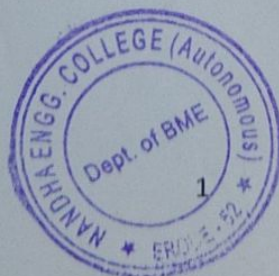
Originator: BoS Chairman (HoD – Biomedical Engg.)	Circulated to: All faculty members
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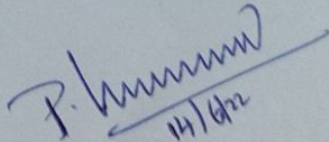
Sub: Programme Assessment Committee (PAC) Meeting regarding.

The 1st PAC meeting has been scheduled on 18.06.2022 (Saturday). In this connection, PAC members of the Biomedical Engineering Program are requested to attend the meeting and provide their valuable suggestions.

Date & Time of Meeting: 18.06.2022 (1 PM) - Saturday

Venue: Hall No: 104, Block -I




14/6/22
Dr P.Sukumar
CHAIRMAN, BoS/BME

NANDHA ENGINEERING COLLEGE, ERODE – 638 052
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DEPARTMENT OF BIOMEDICAL ENGINEERING

**MINUTES OF THE PROGRAMME ASSESSMENT COMMITTEE (PAC) MEETING / DEPARTMENT
ADVISORY BOARD (DAB) MEETING**

The 1st PAC meeting was held on 18.06.2022 by 1.00 pm at Block 1 Hall. No: 104.

The Chairman of the PAC, Dr. P. Sukumar, Professor & Head/ BME welcomed the members for the meeting. Then, the items listed below were taken for discussion.

AGENDA	
Item 1.01	Details of members.
Item 1.02	Roles and responsibilities of the PAC.
Item 1.03	Pitfalls and difficulties in the existing curriculum
Item 1.04	Revision of Department Vision, Mission, PEOs and PSOs, if required.
Item 1.05	New Regulation and Curriculum (R22)
Item 1.06	Department activity plan for the academic year 2022 – 2023.
Item 1.07	Discussion on Budget requirement and Utilization.
Item 1.08	Annual Report
Item 1.09	Any other matter

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

Item 1.01	Details of members.								
Discussion	All the faculty members of the department are nominated as members of PAC with head of the department as chairman.								
Item 1.02	Roles and responsibilities of the PAC.								
Discussion	<ul style="list-style-type: none"> ➤ The HoD deliberated the roles and responsibilities of the PAC to the members. ➤ Monitoring the achievements of Program Outcomes (POs) and Program Specific Outcomes (PSOs) and proposes necessary changes in curriculum for the attainment of POs and PSOs. ➤ Assessment data would be gathered, reviewed and reported as per assessment cycle and recommend revisions for the programme improvement. ➤ Interact with students, faculty and other stakeholders for the improvement of the PO and PSO attainment. ➤ Allotment of department coordinators for various activities. ➤ Track status and report of work assigned to the members and bring out in notice to DAB. 								
Resolution	Resolved to accept and follow the Roles and responsibilities of the PAC.								
Item 1.03	Pitfalls and difficulties in the existing curriculum								
Discussion	<ul style="list-style-type: none"> ➤ Course outcomes may be checked and rewritten based on Bloom's taxonomy ➤ CO-PO mapping with numerical relevance in the syllabus. ➤ PSO mapping may be included in the syllabus like CO & PO. 								
Resolution	Resolved to consider the above point in the upcoming curriculum								
Item 1.04	Revision of Department Vision, Mission, PEOs and PSOs, if required.								
Discussion	<ul style="list-style-type: none"> ➤ PAC Members discussed the revision of Vision, Mission statements. ➤ PAC Members discussed the PSO to be revised. 								
Resolution	Resolved to approve the modification in the Department Vision, Mission and PSOs statements.								
Item 1.05	New Regulation and Curriculum (R22)								
Discussion	Regulation: 2022								
	Semester 1								
	S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
	Theory & Embedded Courses								
	1		Professional Communication - I	HS	3	3	0	0	3
	2		Calculus and linear algebra	BS	4	2	2	0	3
	3		Chemistry for Engineers	BS	3	3	0	0	3
	4		Problem Solving and C Programming	ES	5	3	0	2	4
	5		Basics of Electrical and Instrumentation Engineering	ES	3	3	0	0	3
	Laboratory Courses								
1		Engineering Practices Laboratory	BS	4	0	0	4	2	

2		Problem Solving and C Programming Lab	ES	4	0	0	4	2
3		Chemistry Lab	ES	2	0	0	2	1
Mandatory Non Credit Courses								
1		Induction Programme	MC	0	0	0	0	0
2		Soft/Analytical Skills - I	MC	3	1	0	2	0
3		Sports and Yoga - I	MC	1	0	0	1	0
Semester Total								20
Semester 2								
S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
Theory & Embedded Courses								
1		Professional Communication - II	HS	3	3	0	0	3
2		Complex Analysis and Laplace Transform	BS	4	2	2	0	3
3		Physics	BS	3	3	0	0	3
4		Problem Solving using Python Programming	ES	3	3	0	0	3
5		Electronic Devices and Circuits	PC	3	3	0	0	3
Laboratory Courses								
1		Python Programming Laboratory	ES	4	0	0	4	2
2		Physics Lab	BS	4	0	0	4	1
3		Engineering Graphics Lab	ES	4	0	0	4	2
4		Electronic Devices and Circuits Lab	PC	4	0	0	4	2
Mandatory Non Credit Courses								
1		Soft / Analytical Skills - II		3	1	0	2	0
2		Sports and Yoga - II		1	0	0	1	0
Semester Total								22
Semester 3								
S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
Theory & Embedded Courses								
1		Transforms and Differential Equations	BS	4	2	2	0	3
2		Digital System Design	PC	3	3	0	0	3
3		Anatomy and Human Physiology	PC	3	3	0	0	3
4		Engineering Mechanics for Biomedical Engineers	PC	3	3	0	2	3
5		Signals and Systems	PC	3	3	0	0	3
6		Universal Human Values - II	HS	3	3	0	0	3
Laboratory Courses								
1		Digital System Design Lab	PC	4	0	0	4	2
2		Anatomy and Human Physiology Lab	PC	4	0	0	4	2
Mandatory Non Credit Courses								

1		Soft/ Analytical Skills - III	MC	5	3	0	2	0
2		Constitution of India	MC	1	1	0	0	0
Semester Total								22

Semester 4

S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
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Theory & Embedded Courses

1		Probability Theory and Stochastic Processes	BS	4	2	2	0	3
2		Data Structures and Algorithms	ES	3	3	0	0	3
3		Analog Circuit Design	PC	3	3	0	0	3
4		Bio Control Systems	PC	3	3	0	0	3
5		Bio Signal Processing	PC	3	3	0	0	3

Laboratory Courses

1		Data Structures and Algorithms Lab	ES	4	0	0	4	2
2		Analog Circuit Design Lab	PC	4	0	0	4	2
3		Bio Signal Processing Lab	PC	4	0	0	4	2

Mandatory Non Credit Courses

1		Soft/Analytical Skills - IV	MC	5	3	0	2	0
2		Personality and Character Development	MC	2	0	0	2	0
Semester Total								21

Semester 5

S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
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Theory & Embedded Courses

1		Microprocessors and Microcontrollers Interfacing	PC	5	3	0	2	4
2		Biosensors and Measurement	PC	5	3	0	2	4
3		Pathology and Microbiology	PC	4	2	2	0	3
4		Biomaterials	PC	4	2	2	0	3
5	E1	Elective (OE/PSE)	OE/PSE	3	3	0	0	3
6	E2	Elective (PSE)	PEC	3	3	0	0	3

Laboratory Courses

1		Microprocessors and Microcontrollers interfacing Lab	PC	4	0	0	4	2
2		Sensors and Signal Conditioning Lab	PC	4	0	0	4	2

Mandatory Non Credit Courses

1		Soft/Analytical Skills - V		3	1	0	2	0
2		Certification Course - I		1	0	0	1	0
Semester Total								22

Semester 6

S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
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Theory & Embedded Courses

1		Biomedical Instrumentation	PC	3	3	0	0	3
2		Diagnostic and Therapeutic Equipments	PC	3	3	0	0	3
3		Medical Image Processing	PC	4	2	0	2	3
4	E3	Elective(OE/PSE)	OE/PSE	3	3	0	0	3
5	E4	Elective(PSE)	PSE	3	3	0	0	3

Laboratory Courses

1		Biomedical Instrumentation Lab	PC	4	0	0	4	2
2		Diagnostic and Therapeutic Equipments Lab	PC	4	0	0	4	2

Mandatory Non Credit Courses

1		Soft/Analytical Skills - VI		3	1	0	2	0
2		Certification Course - II		1	0	0	1	0
								19

Semester Total

Semester 7

S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
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Theory & Embedded Courses

1		Rehabilitation Engineering	PC	3	3	0	0	3
2		Hospital Management	PC	3	3	0	0	3
3	E5	Elective(PSE)	PEC	3	3	0	0	3
4	E6	Elective(PSE)	PEC	3	3	0	0	3
5	E7	Elective(OE)	OE	3	3	0	0	3

Laboratory Courses

1		Mini Project/ Internship	EEC	4	0	0	8	4
2		Hospital Training	PC	2	0	0	2	1
								20

Semester Total

Semester 8

S.No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
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Theory & Embedded Courses

1	E8	Elective(OE)	OE	3	3	0	0	3
2	E9	Elective(PSE)	PSE	3	3	0	0	3

Laboratory Courses

1		Project Work	EEC	16	0	0	16	8
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Mandatory Non Credit Courses

				14	6	0	16	14
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Semester Total

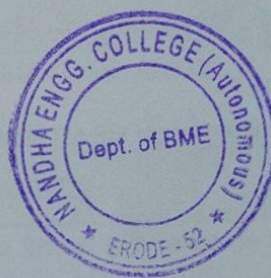
Resolution PAC members approved the above curriculum for placing before DAB and BOS meeting.

Item 1.06 Department activity plan for the academic year 2022 – 2023.

Discussion	SOME- Association Activity 2022-2023	
	S.No	Activity
	1.	Association Inaugural
	2.	Academic seminar-2
	3.	Industrial seminar-2
	4.	Workshop-1
	5.	Exam
6.	Inter Dept Meet	
	Month	August-22
		Sep-22
		Oct-22
		Nov-22
		Dec22
		Jan23

	7.	Intra Dept Meet	Feb23
	8.	Symposium Workshop-4	Mar23
	9.	Academic seminar-1 Industrial seminar-1	Apr23
Resolution	Members noted the above Association Activity plan for the academic year 2022 – 2023.		
Item 1.07	Discussion on Budget requirement and Utilization.		
Discussion	Dept Budget coordinator explains the details related to budget requirement and Utilization for the academic year 2020-2021.		
Resolution	Members noted the Budget requirement and Utilization details.		
Item 1.08	Annual Report		
Item 1.09	Any other matter		
	<ul style="list-style-type: none"> ➤ Passed out students should be encouraged to register in the Alumni portal. ➤ Alumni salary packages details could be collected to maintain the database regarding Alumni. ➤ Students could be motivated and guided to attend online courses to earn credits. 		

Date: 18-6-2022



[Signature]
CHAIRMAN
PAC-BME

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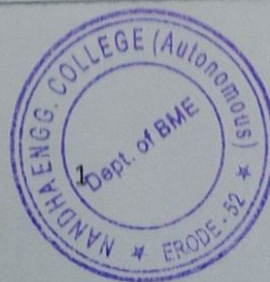
DEPARTMENT OF BIOMEDICAL ENGINEERING

ATR OF THE PROGRAMME ASSESSMENT COMMITTEE (PAC) MEETING -1

Academic Year: 2022-23

The 1st PAC meeting for the academic year 2022-23 was held on 18.06.2022 at 1.00 pm at Block 1 Hall. No: 104.

ITEM	DESCRIPTION	ACTION TAKEN
Item 1.03	Pitfalls and difficulties in the existing curriculum	
Discussion	<ul style="list-style-type: none"> ➤ Course outcomes may be checked and rewritten based on Bloom's taxonomy ➤ CO-PO mapping with numerical relevance in the syllabus. ➤ PSO mapping may be included in the syllabus like CO & PO. 	Accepted and taken into consideration for R22
Item 1.04	Revision of Department Vision, Mission, PEOs and PSOs, if required.	
Discussion	<ul style="list-style-type: none"> ➤ PAC Members discussed the revision of Vision, Mission statements. ➤ PAC Members discussed the PSO to be revised. 	Accepted to propose revised vision, mission, PEO and PSO statements in DAB
Item 1.05	New Regulation and Curriculum (R22)	
Discussion	<ul style="list-style-type: none"> • New curriculum to be framed with reference to AICTE model curriculum. • The pitfalls and difficulties in the existing curriculum have to be overcome in the new curriculum. 	Accepted to prepare and present in DAB
Item 1.06	Department activity plan for the academic year 2022 – 2023.	
Discussion	<ul style="list-style-type: none"> • Academic seminars, Industrial seminars, Industrial Visit and other department activities under various heads to be conducted in time. 	Resolved to follow
Item 1.09	Any other matter	
	<ul style="list-style-type: none"> ➤ Passed out students should be encouraged to register in the Alumni portal. ➤ Alumni salary packages details could be collected to maintain the database regarding Alumni. ➤ Students could be motivated and guided to attend online courses to earn credits. 	Accepted



[Signature]
 CHAIRMAN, PAC-BME



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PROGRAMME ASSESSMENT COMMITTEE

S. No	Members	Signature
1	Dr. P. Sukumar [HoD – Chairman]	
2	Dr. M. Dhipa [ASP/BME]	
3	Mr. A. Amarnath Prabhakaran A [AP/BME]	
4	Ms. K. K. Sangeetha [AP/BME]	
5	Ms. V. T. Nithya [AP/BME]	
6	Ms. R. Arthi [AP/BME]	
7	Ms. B. Sowparnika [AP/BME]	
8	Ms. C. Saranya [AP/BME]	
9	Ms. E. Madura [AP/BME]	