



# 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-01/2023-24 (DAB)

DATE: 22.11.2023

### CIRCULAR

Originator:  
Chairman - DAB

Circulated to:  
Members of DAB & All faculty members

### Sub: Departmental Advisory Board (DAB) meeting:

The DAB meeting is scheduled on 24.11.2023 to discuss the agenda listed below. In this connection, all the DAB members are requested to attend the meeting.

Date & Time of Meeting: 24.11.2023 (02.30 PM)

Venue: Online Mode (Link: <https://meet.google.com/jmx-hcjr-vjq>)

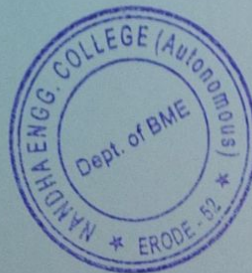
### AGENDA

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 - 2024 batch)
Item 2.04	Result and attainment analysis of 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> year, identification of slow learners and corrective actions, advanced learners and activities for the advanced learners.
Item 2.05	Class Committee Meeting (CCM) reports and action taken.
Item 2.06	Department academic plan and activities.
Item 2.07	First year student admission.
Item 2.08	Online courses for students (NPTEL, Infosys Springboard, etc...)
Item 2.09	IRS course details, Placement status of IV years and training plan for III years.
Item 2.10	Any other matter (if any)

To

All members of DAB,

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



  
22/11/23  
CHAIRMAN - DAB





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Chennai and

Approved by AICTE New Delhi)

DEPARTMENT OF BIOMEDICAL ENGINEERING

MINUTES OF THE DEPARTMENTAL ADVISORY BOARD (DAB) MEETING

Meeting No.: 01	Date: 24.11.2023	Time: 2.30 pm	Venue: Block – 4, BME – HOD Room	Year: 2023 - 2024
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The 1<sup>st</sup> DAB meeting was held on 24.11.2023 by 2.30 pm at Block 4, BME – HOD Room. Dr. M. Dhipa, Chairman - DAB welcomed the members for the meeting. 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 DAB started and the minutes of the meeting are recorded as follows:

Item 2.01	Welcome and introduction of members				
	<p>The Chairman of the DAB Dr. M. Dhipa, HoD-BME, welcomed the External Members,</p> <ul style="list-style-type: none"><li>• <b>Academic Expert:</b> Dr. R. Vanithamani, Professor - Department of Biomedical Instrumentation Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.</li><li>• <b>Industrial Expert:</b> Mr. Boopathi Sakthivel Founder, CEO &amp; Biomedical Engineer, Prashan Medical Technologies, Coimbatore.</li><li>• <b>Alumni:</b> Mr. Aakash R, Data Analyst, Zifo RnD Solutions, Chennai.</li></ul> <p>- followed by the introduction of members.</p>				
Item 2.02	Review of the previous PAC meeting minutes				
	<p>Dr. M. Dhipa reviewed on the previous PAC meeting minutes and reported the action taken.</p> <table border="1"><thead><tr><th>SUGGESTIONS OF 2<sup>nd</sup> PAC on 27.09.2023</th><th>ACTION TAKEN AS PER SUGGESTION</th></tr></thead><tbody><tr><td>Steps to be taken to place the remaining students of Batch [2020-2024]</td><td><ul style="list-style-type: none"><li>• 28 students got placed. 3 students with dual placement. Totally 31 offers received.</li><li>• Companies are identified and planned to send the remaining students for internship cum placement during VIII semester.</li></ul></td></tr></tbody></table>	SUGGESTIONS OF 2 <sup>nd</sup> PAC on 27.09.2023	ACTION TAKEN AS PER SUGGESTION	Steps to be taken to place the remaining students of Batch [2020-2024]	<ul style="list-style-type: none"><li>• 28 students got placed. 3 students with dual placement. Totally 31 offers received.</li><li>• Companies are identified and planned to send the remaining students for internship cum placement during VIII semester.</li></ul>
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Resolution	Resolved to record				





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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 - 2024 batch)

Dr. M. Dhipa presented 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 - 2024 batch).

▪ **Result Analysis and attainment of the even semester (2022-23):**

Modest increase can be seen in term of the marks scored by the students. Pass percentage is improvised.

Year	Semester	Current Sem Pass Percentage	Overall Pass Percentage
I BME [2022 - 2026]	II	71.15%	67.30%
II BME [2021 - 2025]	IV	74.20 %	64.50 %
III BME [2020 - 2024]	VI	96.2%	94.3%

▪ **Overall attainment of the 2023 pass out batch:**

Attainment targets almost achieved. Computed action taken for continuous improvement in cases of failed to attain.

**PO Attainment Levels and Action Taken for Improvement**

Discussion

POs	Target Level	Attainment Level	Observations	Action Taken
PO1	67	83.17	Target achieved	<ul style="list-style-type: none"> <li>✓ Video lectures used for better understanding.</li> <li>✓ Students are asked viva questions relating to the basic concepts to refresh their fundamentals in laboratory sessions.</li> <li>✓ Additional classes for the courses which having less attainment.</li> </ul>
PO2	67	75.28	Target achieved	<ul style="list-style-type: none"> <li>✓ Additional classes for the courses which having less attainment.</li> <li>✓ Organizing hospital/ industrial visit to gain knowledge on real time problems.</li> <li>✓ Conducting Guest lecturers/ seminars to help students in identifying and analyzing the real time problems.</li> <li>✓ Students are motivated to participate in science project exhibition for developing an analytical mind and to work towards problem solving.</li> </ul>





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	PO3	67	69.51	Target achieved	<ul style="list-style-type: none"> <li>✓ Conducting guest lectures/ workshops/ hands on training session to understand process of designing and analyzing real life problems.</li> <li>✓ Students are encouraged to take up project works that will include and pertain to public health, safety, societal, and environmental considerations.</li> </ul>
	PO4	67	73.40	Target achieved	<ul style="list-style-type: none"> <li>✓ Students are motivated to present their ideas/ papers in Hackathon/ National/ International Conferences to promote research culture among them.</li> <li>✓ Courses are included and syllabi updated to include and inculcate the analysis and research skills.</li> </ul>
	PO5	67	65.61	Target not achieved	<ul style="list-style-type: none"> <li>✓ Workshops/ Value-added courses are being conducted to enhance the usage of modern tool.</li> <li>✓ Students are motivated to attend webinars/ seminars/ workshops/ courses regarding modern tool usage.</li> </ul>
	PO6	67	73.04	Target achieved	<ul style="list-style-type: none"> <li>✓ Students are motivated to visit industry/ hospital to expand their practical knowledge with the effect of improved practices in engineering to understand the safety concerns and social aspects.</li> <li>✓ Students are to be exposed to various professional engineering practices followed in the industries/ hospitals through industrial visits.</li> <li>✓ Students are encouraged to do projects in societal relevance and Healthcare applications.</li> </ul>
	PO7	67	62.62	Target not achieved	<ul style="list-style-type: none"> <li>✓ Students are encouraged to participate in programs on global and environmental issues.</li> <li>✓ Students are engaged in tree plantation and other social activities through PCD activities to understand environmental impacts.</li> </ul>
	PO8	67	72.51	Target achieved	<ul style="list-style-type: none"> <li>✓ Students are motivated and given awareness about the demands of biomedical engineering profession, duties towards society &amp; fellow human beings and importance of honesty and ethics.</li> <li>✓ Hospital Internship is provided as part of curriculum to understand professional and</li> </ul>





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					<p>their ethical responsibility.</p> <ul style="list-style-type: none"> <li>✓ Students are encouraged to participate in Co-Curricular activities and Games and promote commitment to ethical principles and an understanding of sportsmanship and that participation is more important than winning.</li> </ul>
	PO9	67	75.21	Target achieved	<ul style="list-style-type: none"> <li>✓ Students are encouraged to participate in inter/ intra college technical competitions, coding contests and Hackathons.</li> <li>✓ Students are motivated to take part actively in department specific club - "Bionics" activities to develop their communication and technical skills.</li> <li>✓ Students are encouraged to participate in various co-curricular and extra-curricular activities in other colleges.</li> <li>✓ Students are encouraged to organize/ participate in National Level Technical Symposium "syNECTics" and Innovation Day.</li> </ul>
	PO10	67	74.65	Target achieved	<ul style="list-style-type: none"> <li>✓ The employability skills of the students are enhanced by conducting events like career development, higher studies, and entrepreneurship development.</li> <li>✓ Students are motivated to take part actively in department specific club - "Bionics" activities to develop their communication and technical skills.</li> <li>✓ Regular online interaction sessions are arranged with the Alumni on the topic "How to Face the Interview" before the placement drive.</li> </ul>
	PO11	67	66.05	Target not achieved	<ul style="list-style-type: none"> <li>✓ The awareness is being created among the student regarding the management principles and managing projects.</li> <li>✓ Students are encouraged to prepare project proposals with the guidance of faculty for government funding agencies.</li> </ul>
	PO12	67	69.32	Target achieved	<ul style="list-style-type: none"> <li>✓ Students are motivated to register for competitive examinations.</li> <li>✓ Students are encouraged to publish papers in various national and international journals/ conferences.</li> <li>✓ Students are encouraged to take up NPTEL/</li> </ul>





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Springboard/ online courses on emerging technologies to aid them in continuous learning.

### PSO Attainment Levels and Action Taken for Improvement

PSOs	Target Level	Attainment Level	Observations	Action Taken
PSO1	67	69.87	Target achieved	Seminars/ workshops are conducted for students to upgrade core Biomedical Engineering knowledge.
PSO2	67	64.17	Target not achieved	<ul style="list-style-type: none"> <li>✓ Training programs are organized to enhance the programming skills.</li> <li>✓ Assessments are given in Examly to develop the programming skills.</li> <li>✓ Students are motivated to participate in various events like Hackathon, project expo, etc.,</li> </ul>
PSO3	67	59.00	Target not achieved	<ul style="list-style-type: none"> <li>✓ Industrial Visits to manufacturing and service-related companies are organized, so that they can design, analyze and find solution which gives exposure to latest technologies.</li> <li>✓ One Credit Course/Value added course on creating a prototype model using Embedded systems for biomedical applications is conducted.</li> </ul>
PSO4	67	69.96	Target achieved	<ul style="list-style-type: none"> <li>✓ Encouraging the students to take hospital internship to strengthen the domain knowledge.</li> <li>✓ Motivate to take up online courses on new technologies which would help them in continuous learning.</li> </ul>

▪ **Target fixed for the I year [2023-2027] Batch:**

- ✓ Target fixed for [2019-2023] Batch: 67%
- ✓ POs that attained target level: PO1, PO2, PO3, PO4, PO6, PO8, PO9, PO10, PO12
- ✓ PSOs that attained target level: PSO1, PSO4
- ✓ PO and PSO needed improvement: PO5, PO7, PO11, PSO2, PSO3
- ✓ Target fixed as 69% for I year [2023-27] Batch.





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Dr. R. Vanithamani appreciated the efforts taken in Results and Attainment.

Resolution Resolved to record

Item 2.04

Result and attainment analysis of 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year, identification of slow learners and corrective actions, advanced learners and activities for the advanced learners.

Dr. M. Dhipa presented the result and attainment analysis of 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year, identification of slow learners and corrective actions, advanced learners and activities for the advanced learners.

▪ **Even Semester (2022-23) Result and Attainment Analysis:**

Fair performance by students noticed in 2023-23 even semester result analysis. Unit wise Course Outcome attainment requires improvement.

**II Year [2022-26]**

Subject code	Subject name	Pass %
22EYA02	Professional Communication- II	94
22MYB04	Transforms and Partial Differential Equations	94
22PYB03	Solid State Physics	100
22CSC02	Data Structures using C	88
22ECC04	Electronic Devices and Circuits (Theory + Lab)	90
22GYA02	Tamils and Technology	100
22CSP02	Data Structures Laboratory	88
22PYP01	Physics Laboratory	100
22MEP01	Engineering Graphics Laboratory	100
22MAN04	Soft/Analytical Skills –II	100
22MAN05	Yoga – II	100

Discussion





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### III Year [2021-25]

Subject code	Subject name	Pass %
17MYB09	Probability and Random Processes	83.9
17ECC07	Signals and Systems	93.5
17ECC11	Analog Circuit Design	100
17BMC02	Sensors and Signal Conditioning	100
17BMC03	Bio Control Systems	90.3
17ITC08	Fundamentals of Java Programming	100
17ECP06	Analog and Circuit Design Laboratory	100
17BMP02	Sensors and Signal Conditioning Laboratory	100
17GED01	Soft Skills - Listening and Speaking	100
17GED03	Personality and Character Development	100
17BMI03	LABVIEW for Biomedical Applications	100

### IV Year [2020-24]

Subject code	Subject name	Pass %
17ECC13	Microprocessors and Microcontrollers Interfacing	100
17BMC06	Medical Image Processing	100
17BMC07	Biomedical Instrumentation-II	98.1
17BMX01	Biomaterials	100
17ECP08	Microprocessors and Microcontrollers Interfacing Laboratory	100
17BMP05	Biomedical Instrumentation-II Laboratory	100
17EYZ04	Employability Enhancement and Analytical Skills	100
17EYX01	Effective Communication	100





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17CSX31	Problem Solving and Programming	100
17GEA03	Total Quality Management	100
17BMC003	Telehealth Technology	92.3
17GED06	Comprehension	100

### ▪ Identification of 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. Asked about the difficulties faced in the subjects.
- ✓ Given ideas for the improvement and Insisted about regularizing the study hours and continuous improvement.
- ✓ Advised to attend classes regularly and follow the instructions properly.

### ▪ Advanced learners and activities for the advanced learners:

Initiatives taken:

- ✓ Guidance provided to do online courses.
- ✓ Encouraged to do journal, patent publications.
- ✓ Motivated for innovation and product development and concentrate more on placement.

Dr. R. Vanithamani insisted on to concentrated on the results.

Resolution Resolved to record

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

Dr. M Dhipa discussed the Class Committee Meeting (CCM) reports and action taken.

Discussion

NATURE OF THE FEEDBACK	ACTION TAKEN
Students requested for Industrial Visit.	Industrial Visit planned and arranged promptly.
Assignment submission dates of all subjects overlap.	Conveyed each course handling faculties to check on the dates of assignment submission.
All students anticipated preference for CIPD activities and project work.	Advanced learners are assigned with CIPD activities and project work. In order to foster other students, concurred to improve academic performance to participate in CIPD activities.
Reported on improper working of EDC Laboratory components.	Intimated the concerned in-charge to rectify the issue before End Sem practical examination.





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Resolution Resolved to record

Item 2.06 Department academic plan and activities.

Discussion Dr. M. Dhipa presented the department academic plan and activities.

S. No.	Name of the Event	Tentative Schedule
1	New MoU Signing	4 <sup>th</sup> week of June
2	Industrial Training for Faculty	2 <sup>nd</sup> week of July
3	Bionics Club Activities	4 <sup>th</sup> week of July
4	Alumni Interaction	4 <sup>th</sup> week of July
5	New MoU Signing	1 <sup>st</sup> week of August
6	Bionics Club Activities	1 <sup>st</sup> week of August
7	Alumni Interaction	1 <sup>st</sup> week of August
8	Seminar	2 <sup>nd</sup> week of August
9	New MoU Signing	2 <sup>nd</sup> week of August
10	Bionics Club Activities	2 <sup>nd</sup> week of September
11	Industrial Visit	4 <sup>th</sup> week of September
12	Renewal of MoU	1 <sup>st</sup> week of October
13	Industrial Visit	2 <sup>nd</sup> week of October
14	Seminar	4 <sup>th</sup> week of November

Resolution Resolved to record

Item 2.07 First year student admission.

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

Counselling Rounds	Cut-off Score Range	No. of Students admitted
Round 1	178	1
Round 2	158 - 142	16
Round 3	140.5 - 105	25





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**Dr. R. Vanithamani , Mr. Boopathi Sakthivel and Mr. Aakash R** were delighted to see 100% admission in I year reflecting the awareness of the course .

Resolution Resolved to record the admission status.

**Item 2.08** Online courses for students (NPTEL, Infosys Springboard, etc...)

Dr. M. Dhipa presented the online courses for students (NPTEL, Infosys Springboard, etc...)

Year of Study	Online Course	Name of the Course	No. of Students Registered	No. of Students Attended	No. of Students Passed
III	NPTEL	Biophotonics	25	25	22
		Genetic Engineering: Theory and its Application	30	30	4
IV	NPTEL	Municipal Solid Waste Management	5	3	3
	Infosys Springboard	Artificial Intelligence Primer	53	42	34

**Dr. R. Vanithamani** enquired about the mentor allotment for students guidance in NPTEL courses.

Resolution Resolved to record

**Item 2.09** IRS course details, Placement status of IV years and training plan for III years.

IRS coordinator presented the course details and training plan for III years.

- **Industry Related Subject (IRS) course details:**

### I Year [2023-27]

Year	Communication/ Verbal Slot	Aptitude & Reasoning Slot	Programming Slot
I	<p><b>22EYA01</b> Professional Communication - I</p> <p><b>DATE:</b> 17.10.2023 - 31.10.2023 (10 Days)</p> <p><b>HANDLING FACULTY</b> Ms. K M Madhumitha / ENG Ms. K S Punithasree / ENG</p>	<p><b>22MAN02</b> Soft/Analytical Skills - I</p> <p><b>DATE:</b> 09.10.2023 - 16.10.2023 (6 Days) 01.11.2023 - 04.11.2023 (4 Days)</p> <p><b>HANDLING FACULTY</b> Mr. R Shankar / BME</p>	<p><b>22CSC01</b> Problem Solving and C Programming &amp; <b>22CSP01</b> Problem Solving and C Programming Laboratory</p> <p><b>DATE:</b> THEORY SLOT: 16.11.2023 - 08.12.2023</p>





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(20 Days)  
LAB SLOT: 27.11.2023 -  
08.12.2023  
(11 Days)

**HANDLING FACULTY**  
Mr. A Srithar / BME

### II Year [2022-26]

Year	Communication/ Verbal Slot	Aptitude & Reasoning Slot	Programming Slot
II	<b>22MAN07</b> Soft/Analytical Skills - III  <b>DATE:</b> 27.11.2023 - 01.12.2023 (5 Days)  <b>HANDLING FACULTY</b> Ms. Abirami / ENG	<b>22MAN07</b> Soft/Analytical Skills - III  <b>DATE:</b> 14.11.2023 - 25.11.2023 (10 Days)  <b>HANDLING FACULTY</b> Mr. R Shankar / BME	<b>ADD ON COURSE</b>  <b>DATE:</b> 03.11.2023 - 10.11.2023 (7 Days)

### III Year [2021-25]

Year	Communication/ Verbal Slot	Aptitude & Reasoning Slot	Programming Slot
III	<b>17EYZ04</b> Employability Enhancement and Analytical Skills  <b>DATE:</b> 10.11.2023 - 23.11.2023 (10 Days)  <b>HANDLING FACULTY</b> Ms. K M Madhumitha / ENG	<b>17EYZ04</b> Employability Enhancement and Analytical Skills  <b>DATE:</b> 19.09.2023 - 03.10.2023 (10 Days)  <b>HANDLING FACULTY</b> Mr. R Shankar / BME	<b>17ITZ05</b> Java Programming  <b>DATE:</b> 04.10.2023 - 31.10.2023 (20 Days)  <b>HANDLING FACULTY</b> Ms. Abirami / IT

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





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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 1,
  - 5 students had scored in the range of 51-75 marks.
  - 26 students had scored in the range of 26-50 marks.

Placement coordinator presented the placement status of IV years.

- **Placement Status IV years [2020 - 2024]Batch:**

No. of Students Placed so far: **28**

List of placed students with their company name and salary package as follows,

### CORE | Total Placement – 20 Students|

S. No	Name of the Company	Pay Package at Appointment (LPA)	No. of Students Placed
1	JS HEALTH CARE	1.44	1
2	CARNA MEDICARE	1.44	2
3	PRABHA IMPEX	1.44	1
4	MEDVID HEALTH TEC	1.2	1
5	MEDITECH SOLUTIONS	1.2	1
6	KGISL	2.83	1
7	FACE PREP	3.06	6
8	ZIFO	4.76	3
9	DIAGNO CARE LIFE SCIENCE	2.4	1
10	UNICORN MEDICALS	1.44	3





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### IT | Total Placement – 11 Students

S. No	Name of the Company	Pay Package at Appointment (LPA)	No. of Students Placed
1	AALAM SOFT	3.50	1
2	MALLOW TECHNOLOGY	4.2	1
3	OBJECTWAYS TECHNOLOGIES	1.8	9

**Dr. R. Vanithamani** and **Mr. Boopathi Sakthivel** appreciated the idea of Continuous mode training and achieved Placement Status.

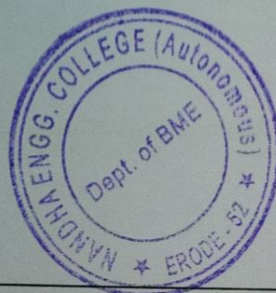
Resolution Resolved to record the Placement status

Item 2.10 Any other matter

Discussion

- **Mr. Aakash R** putforth a suggestion of adding programming languages to obtain basic idea of current industry.
  - ✓ **Dr. M. Dhipa** highlighted the addition of programming language courses for placement purpose in R22 Curriculum.
  - ✓ Also, Students are encouraged and motivated to complete **ARTIFICIAL INTELLIGENCE PRIMER** course from Infosys Springboard.
- **Dr. M. Dhipa** disclosed the introduction of Honor, Honor Specialization and Minor courses in R17 curriculum.
- Also, stated the offering of **HONOR SPECIALIZATION** courses to the department students and **MINOR** courses to **AI&DS** student.
  - ✓ **Dr. R. Vanithamani** and **Mr. Aakash R** acknowledged and rated highly.

Resolution Resolved to accept



CHAIRMAN - DAB





# NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

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

ERODE – 638 052 TAMILNADU

Department of Biomedical Engineering

## DEPARTMENTAL ADVISORY BOARD MEETING

**First year Student admission**  
Total Number of Students admitted = 60

Government Quota	Management Quota
42	18

Counselling Rounds	Cut-off Score Range	No. of Students admitted
Round 1	178	1
Round 2	158 - 142	16
Round 3	140.5 - 105	25

Thank You

Thank You