



# NANDHA ENGINEERING COLLEGE (Autonomous)

Affiliated to Anna University Chennai + Approved by AICTE + Accredited by NBA-NewDelhi  
Pitchchandampalayam, (P.O), Vaikkalmedu, Erode - Perundurai Road, Erode - 638 052  
Phone : 04294-225585, 223711, 223722, 226393 Mobile : 73737 23722 Fax : 04294 - 224787  
E.mail : info@nandhaengg.org

Website : www.nandhaengg.org

## DEPARTMENT OF BIOMEDICAL ENGINEERING EMPLOYER FEEDBACK ON CURRICULAM AND SYLLABUS

SURVEY COUNT = 10							
S. No	Feedback Questions	Excellent	Good	Fair	Poor	Total Weightage	Percentage
1.	Satisfaction with the calibre of the graduates	7	3	0	0	37	92.5
2.	Satisfaction that graduates are learning the right skills/courses relevant to your organisation's requirements	6	4	0	0	36	90
3.	Satisfaction with the speed at which course content is being adapted to meet the changing industrial needs	6	4	0	0	36	90
4.	Institutional Reputation	10	0	0	0	40	100
5.	Relevant subject or Discipline Knowledge	4	6	0	0	34	85
6.	Quality of Employability Skills and Attributes of our graduates	7	3	0	0	37	92.5
7.	The institution produces high quality graduates	5	5	0	0	35	87.5
8.	Successful past experience of recruiting from this institution	4	6	0	0	34	85
9.	Organisation and institution collaborate on joint research projects	4	6	0	0	34	85
10.	Ability to apply professional and / or technical knowledge in the workplace	7	3	0	0	37	92.5

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## DEPARTMENT OF BIOMEDICAL ENGINEERING

### EMPLOYER FEEDBACK REPORT ON CURRICULUM AND SYLLABUS

#### ANALYSIS AND ACTION TAKEN REPORT

#### Points on Analysis

Most of the Employers have expressed that

- They are satisfied with the general calibre of our graduates.
- They have acknowledged the general reputation of the institution.
- Our graduates are possessed with employable skills.
- Our graduates are able to apply their technical knowledge in their work place suggestions.

#### Suggestions:

- Industry Institute interactive activities may be strengthened.
- Industry based project work may be given to the students.
- More industry oriented topics to be added in the curriculum.
- More training to be given to improve their Technical, Employable and Communication skill sets.

#### Action Taken:

- Project Based learning module will be made mandatory.
- Industry-based projects will be encouraged.
- More number of Industry relevant Value-Added Courses to be conducted.
- More Industry Institute Interactive activities to be arranged.

  
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## DEPARTMENT OF BIOMEDICAL ENGINEERING

### ALUMINI FEEDBACK ON CURRICULAM AND SYLLABUS

SURVEY COUNT = 29							
S. No	Feedback Questions	Excellent	Good	Fair	Poor	Total Weightage	Percentage
1.	Academic initiatives taken by the college to improve technical or industry required knowledge is sufficient	16	9	4	0	99	85.34
2.	Co-curricular initiatives taken by the college to improve the students technical/professional skills	18	7	4	0	101	87.07
3.	Whether the Choice Based Credit System was in tune with the existing or emerging trends of the industry	17	7	5	0	99	85.34
4.	Whether the Programme offered to you was suitably demanding the industrial need	17	9	3	0	101	87.07
5.	Was the Syllabus prescribed for the programme are well organized and structured?	19	6	4	0	102	87.93
6.	Content of the courses (subjects) offered under my programme was up to date and relevant	20	5	4	0	103	88.79
7.	Project work / Internships offered under my programme was challenging and constructive	19	7	3	0	103	88.79
8.	Open Elective courses offered were diverse and resourceful	18	8	3	0	102	87.93
9.	Overall learning environment offered in the campus	17	8	4	0	100	86.21

  
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### DEPARTMENT OF BIOMEDICAL ENGINEERING

### ALUMNI FEEDBACK REPORT ON CURRICULUM AND SYLLABUS

### ANALYSIS AND ACTION TAKEN REPORT

Following are the Analysis and Suggestions which are given by the Alumni to our department:

#### Analysis:

- Many students were appreciative of the Syllabus prescribed for the programme and feel it was well organized and structured.
- The number of subjects can be increased that is suitable to meet the demand of industrial needs.
- Open Elective courses offered were diverse and resourceful.

#### Suggestion:

- More training on Industry related subjects can be provided.
- Our Alumni students suggested including R, Python, C, JAVA and Basic concepts of Artificial Intelligence in our curriculum.
- Suggested on introducing more biomedical core course in the upcoming curriculum.

#### Action taken:

- More Industry Institute Interactive activities to be arranged.
- The courses suggested by our alumni are included in our R22 curriculum:
  - 22CSC01 - Problem Solving and C Programming
  - 22CSC02 - Data Structures using C
  - 22ITC06 - Java Programming

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- Students are motivated to complete Infosys springboard - online certification course on Artificial Intelligence Primer.
- Program Specific Courses are introduced in R22 curriculum:
  - 22BMC07 – Biomaterials and Artificial Organs
  - 22BMC09 – Radiology Equipment
  - 22BMC11 – Fundamentals of Healthcare Analytics
- We accept all the Suggestions/Comments/Appreciations expressed by Alumni and good practices will be continued in future also.

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## DEPARTMENT OF BIOMEDICAL ENGINEERING STUDENTS FEEDBACK ON CURRICULAM AND SYLLABUS

SURVEY COUNT = 177							
S. No	Feedback Questions	Excellent	Good	Fair	Poor	Total Weightage	Percentage
1.	The curriculum and syllabus are well organized and easy to follow	105	68	4	0	632	89.27
2.	Is the entire syllabus covered by the faculty?	98	69	10	0	619	87.43
3.	Laboratory exercise improve my ability to understand concepts and helps to relate and apply theory to practice	98	67	12	0	617	87.15
4.	The depth of the syllabus is proportional to course outcomes	97	68	12	0	616	87.01
5.	The correct credit were allocated to the course depending on the difficulty of the course	107	65	5	0	633	89.41
6.	The syllabus provide the necessary skill set required by the industry	108	64	5	0	634	89.55
7.	The books prescribed as reference material are relevant, updated and appropriate	102	67	8	0	625	88.28
8.	The elective offered are pertinent to the specification streams and to technology advancements	95	74	8	0	618	87.29
9.	Is the syllabus career oriented?	108	61	8	0	631	89.12
10.	Is the pre-requisite course appropriate?	104	63	10	0	625	88.28
11.	Does the teacher provide examples of concepts/ principles, description effectively?	117	52	8	0	640	90.40

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### DEPARTMENT OF BIOMEDICAL ENGINEERING

### STUDENT FEEDBACK REPORT ON CURRICULUM AND SYLLABUS

### ANALYSIS AND ACTION TAKEN REPORT

Feedback from the students is collected to improve the teaching learning process

#### Analysis

- Most of the students expressed that curriculum and syllabus was well organized.
- They are satisfied with the laboratory exercises which help them to improve their practical knowledge.
- Text books and reference books available in the library are adequate and relevant.
- Elective courses offered were relevant and useful to them to meet the industry requirements.

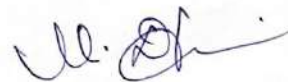
#### Suggestions

- More number of add on and one credit courses to be offered for relevant exposure to the current technological developments.
- More exposure to be given to improve their Technical, Employable and Communication skill sets.

#### Action taken

- More number of Value-Added Courses to be conducted on holistic perspective in current industry challenges and to improve their confidence level.
- More number of seminars, hand-on sessions and workshops to be planned.

  
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## DEPARTMENT OF BIOMEDICAL ENGINEERING

### FACULTY FEEDBACK ON CURRICULAM AND SYLLABUS

SURVEY COUNT = 9							
S. No	Feedback Questions	Excellent	Good	Fair	Poor	Total Weightage	Percentage
1	Curriculum and syllabus on par with recent trends	6	2	1	0	32	88.89
2	Elucidation of course outcomes	5	4	0	0	32	88.89
3	Adequacy of Academic tasks in the course plan	4	5	0	0	31	86.11
4	Syllabus in accordance with competitive examinations	7	2	0	0	34	94.44
5	Importance and relevance of the course to industry and societal needs	6	3	0	0	33	91.67
6	Accessibility of relevant reading Materials and E-sources in the library	7	2	0	0	34	94.44
7	Course equilibrium between theory and application	4	5	0	0	31	86.11
8	Privilege to propose, modify, suggest and incorporate new topics in the syllabus through proper forum	6	3	0	0	33	91.67
9	Flexibility in adopting new techniques/ tools strategies in reaching	7	2	0	0	34	94.44
10	Scope provided for research activities	5	4	0	0	32	88.89

  
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### FACULTY FEEDBACK REPORT ON CURRICULUM AND SYLLABUS

### ANALYSIS AND ACTION TAKEN REPORT

Following are the analysis and suggestions which are given by the Faculty members:

#### Analysis:

- Majority of faculty members strongly agreed that the Curriculum and Syllabus was on par with recent trends and it has relevance to the Industry and Societal needs.
- Elucidation of Course Outcomes adequately done.
- Learning resource materials available in the library is adequate and accessible.
- Faculty has enough freedom through the Board of Studies that has privilege to propose, modify, suggest and include new topics in the syllabus.
- Appreciated that flexibility given to them to adopt new techniques, tools and strategies in teaching to improve teaching learning process.

#### Suggestions:

- Our faculty members suggested on making few of Program Specific Electives to Program Core Courses in the upcoming curriculum.
- Faculties suggested on altering the following course titles to discern and discriminate distinctly
  - 17BMC05 - Biomedical Instrumentation – I to Biomedical Instrumentation
  - 17BMC07 - Biomedical Instrumentation – II to Diagnostic and Therapeutic Equipment



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## Action taken:

- As per faculties' suggestion, the following courses are added up to Program Core Courses in R22 curriculum.
  - 22MEC13 – Engineering Mechanics for Biomedical Engineers
  - 22BMC07 - Biomaterials and Artificial Organs
  - 22BMC09 - Radiology Equipment
- As Faculties suggested, the following course titles are altered for discerning and discriminating distinctly
  - 17BMC05 - Biomedical Instrumentation – I to 22BMC04 - Biomedical Instrumentation
  - 17BMC07 - Biomedical Instrumentation – II to 22BMC10 - Diagnostic and Therapeutic Equipment

We accept all the appreciations expressed by Faculty members about the flexibility on framing Curriculum and Syllabus and good practices will be continued in future also.

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