

## DEPARTMENT OF SCIENCE AND HUMANITIES

### BOARD OF STUDIES MEETING

**Faculty : Science and Humanities**

**Faculty :** Science and Humanities

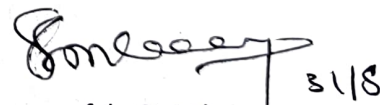
**Program Offered :** B.E./ B.TECH

**Date & Time :** 31<sup>st</sup> August 2023 at 10.00 a.m.

**Venue :** NPRCET Rear Block Seminar Hall (RBSH 006)

### AGENDA

1. Welcome address by Board of Chairman
2. Presentation by Board of Chairman
3. Suggestion by Expert members
4. Any other matters / discussion
5. Concluding remarks and vote of thanks



Signature of the BoS Chairman

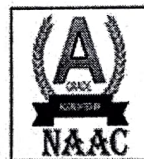
(Dr. S. Manivasa)



# NPR

**COLLEGE OF ENGINEERING & TECHNOLOGY  
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## DEPARTMENT OF SCIENCE AND HUMANITIES

### Minutes of the Board of Studies meeting

**Faculty** : Science and Humanities  
**Program Offered** : B.E./ B.TECH  
**Date & Time** : 31<sup>st</sup> August 2023 at 10.00 a.m.  
**Venue** : NPRCET Rear block Seminar Hall (RBSH 006)

#### The Members of the Board are:

S. No.	Member Category	Name, Designation and Affiliation
1	Chair Person	Dr. S. Manivasan, Professor & First Year Coordinator, Department of Science and Humanities, NPR College of Engineering & Technology, Natham - 624 401, Dindigul.
2	University Nominee	Dr. A. Tamilselvi, Professor of English, Thiagarajar College of Engineering, Madurai-625015.
3	Subject Experts from outside of the parent university	1. Dr. S. Mekala, Associate Professor, Department of Humanities and Social Sciences, National Institute of Technology (NIT), Tiruchirappalli-620 015.
4		2. Dr. V. Lakshmana Gomathi Nayagam, Associate Professor & Head, Department of Mathematics, National Institute of Technology (NIT), Tiruchirappalli-620 015.
5		3. Dr. N. Gopalakrishnan, Professor, Department of Physics, National Institute of Technology (NIT), Trichirappalli - 620 015.
6		4. Dr. R. Karvembu, Professor, Department of Chemistry, National Institute of Technology (NIT), Trichirappalli - 620 015.
7	Industrial / Corporate sector / Allied Sector Expert	Mr. B. Ezhilavan, Managing Director, VEI Technologies, Poonamallee, Chennai.
6	Department Alumni	Mr. T. Muthurajesh, Senior Testing Engineer, Wipro Technology, Chennai.



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7	Experts from outside the Autonomous college	1. Dr. M. Mahendran, Professor & Head, Department of Physics, Thiagarajar College of Engineering, Madurai-625015.
		2. Dr. S. Sivailango, Assistant Professor, Department of Chemistry, Thiagarajar College of Engineering, Madurai - 625 015.
8	Members of the faculty of Science and Humanities	1. Dr. R. Ragupathi, HOD/English
		2. Dr. P. Shanmugapriya, ASP/English
		3. Dr. P. Sulochana, AP/English
		4. Dr. M. Sridharan, HOD/Mathematics
		5. Dr. A. Kanimozhi, ASP/Mathematics
		6. Dr. P. Rani, ASP/Mathematics
		7. Mr. K. Yogunath, AP/Mathematics
		8. Mrs. D. Lakshmi, AP/Mathematics
		9. Mrs. C. Yogitha, AP/Mathematics
		10. Dr. P. S. Satheesh Kumar, HOD/Physics
		11. Dr. N. Kavitha, ASP/Physics
		12. Dr. G. Kandiban, ASP/Physics
		13. Mr. Karuppasamy, AP/Physics
		14. Mr. V. Vijayanarayanan, AP/Physics
		15. Dr. N. Prabakaran, HOD/Chemistry
		16. Dr. C. Balamurugan, Professor/Chemistry
		17. Dr. S. Nagasubramanian, AP/Chemistry

**Dr.S.Manivasan**, Chairman, Board of Studies of the Faculty of Science and Humanities welcomed and introduced the BoS members for the first BoS meeting. He started the presentation with a brief introduction about our department faculty members and curriculum to the members.

#### Department of Science and Humanities

Based on the following suggestions given by the members, the Chairman of BoS suggestions were incorporated appropriately in the Curriculum and Syllabus of Semester 1 to 4.

#### **Suggestions given by Dr. A. Tamilselvi - University Nominee**

One credit course on Professional Communication/Interpersonal Skills can be offered to Third year in Fifth or Sixth semester for the benefit of student to face placements.





### Suggestions given by Dr. S. Mekala - Subject Expert in English

#### In First Semester, Professional English I

##### Unit I

1. It is resolved to have the title as Introduction to effective communication.

##### Unit II

1. It is resolved to remove the topic: words often confused.

##### Unit III

1. It is resolved to have discourse markers (connectives and sequence words) in II Semester Professional English II Unit I.

##### Unit IV

1. It is resolved to have note taking in reading.

#### In Second semester, Professional English II

##### Unit I

1. It is resolved to include discourse markers (connectives and sequence words) in reading.
2. It is resolved to offer Agenda and Minutes of meeting in Unit III.
3. It is resolved not to have parts of speech and kinds of sentences.
4. It is resolved to have impersonal passive-voiced in unit I

##### Unit II

1. It is resolved to have the title as Expressing Casual Relations.

##### Unit III

1. It is resolved to have the title as Critical Thinking and Problem Solving.
2. It is resolved to offer Agenda and Minutes of meeting in Unit III.

##### Unit V

1. It is resolved to have the title as cohesive writing.

#### In Second semester, English Laboratory II

1. It is resolved to have contact hours 4 with 2 credits.

### Suggestions given by Dr. V. Lakshmana Gomathi Nayagam - Subject Expert in Mathematics

#### In First Semester, 23MA101- Matrices and Calculus

1. Unit - I - It is Suggested to exclude Applications: Stretching of elastic membrane.
2. Unit - II - Topic to be changed as "Differential and Integral Calculus"

It is suggested to exclude from Unit - II Representation of functions - Limit of a function - Continuity - Derivatives - Differentiation Rules (Sum, Product, Quotient, Chain Rules) and also include the topics from Unit - IV (Definite and Indefinite Integrals - Properties - Trigonometric integrals - Integration of Rational functions by partial fractions, Integration of Irrational functions.

##### 3. Unit - III - No Corrections

##### 4. Unit - IV - Topic to be changed as "Multiple Integrals and Vector Calculus"

It is suggested to remove "Application: Moments and centres of mass, moment of Inertia". And also added the vector calculus: - Divergence- Curl - Solenoidal - Rotational - Irrotational - Line integral - Surface integral - volume integral - Gauss divergence and Stoke's Theorem (Without proof)

##### 5. Unit - V - It is suggested to exclude the topic "Method of Undetermined Coefficients".



#### **Suggestions given by Dr. N. Gopalakrishnan - Subject Expert in Physics**

1. Engineering Physics and Second semester all physics courses to be solid and Sharp.
2. If practicable, it was suggested to incorporate concepts from Boolean algebra into the first semester of engineering physics.

#### **Suggestions given by Dr. M. Mahendran - Subject Expert in Physics**

1. It is suggested to substitute Smart phone reception or cell phone reception in Unit II Electromagnetic field and waves in first semester Engineering Physics.
2. Appreciated for the inculcation of zone theory in Second semester Physics for Electrical Engineering

#### **Suggestions given by Dr. R. Karvembu - Subject Expert in Chemistry**

1. The syllabus of Engineering Chemistry in the first semester was very impressive, framing of syllabus and changes also good manner to the forth coming of students. I suggested to remove of one sub topic in the Engineering chemistry, unit I because of introduction of water quality parameter is remained as same.
2. Sustainability and environmental science have a sound curriculum.

#### **Suggestions given by Dr. S. Sivailango - Subject Expert in Chemistry**

1. The syllabus of Engineering Chemistry in the first semester was orderly arranged and addition of polymer enhances the knowledge to the forth coming of students. I agree the modification of our subject expert.
2. The environmental science and sustainability curriculum is well-framed.

#### **Suggestions given by Mr. B. Ezhilavan - Industrial Expert**

In order to strengthen their skills and their networking with professionals in the industry, students should be encouraged to attend more workshops and seminars.

#### **Suggestions given by Mr. T. Muthurajesh – Alumini**

I much impressive in our curriculum of our Basic science courses and it enhance the knowledge of present industrial field.

Finally, the meeting ended with a vote of thanks by Dr. R. Ragupathi, HOD/English, Department of Science and Humanities, the chairman thanked all the members for their suggestions and substantial inputs provided in the meeting.



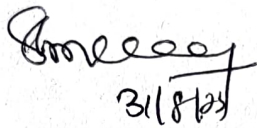
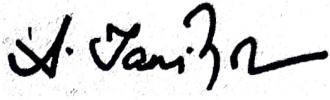


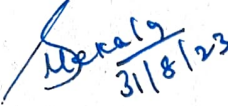


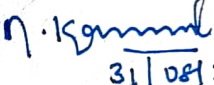
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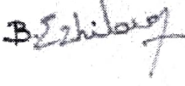

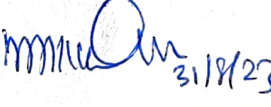

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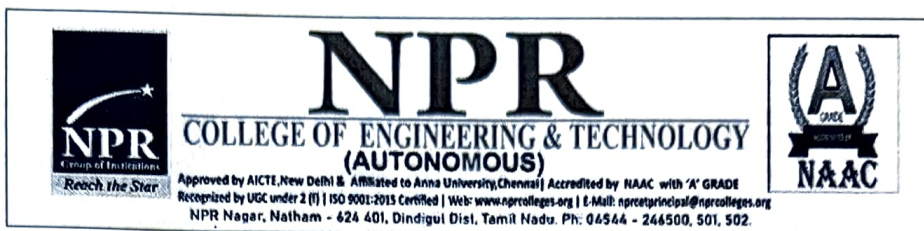
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 31/8/23	
<b>BoS, Chair Person</b>	<b>University Nominee</b>
<b>Dr. S. Manivasan,</b> Professor & First Year Coordinator, Department of Science and Humanities, NPR College of Engineering & Technology, Natham – 624 401, Dindigul.	<b>Dr. A. Tamilselvi,</b> Professor of English, Thiagarajar College of Engineering, Madurai-625015.

 31/8/23			 31/08/2023
<b>Subject Experts from outside of the parent university</b>			
<b>Dr. S. Mekala,</b> Associate Professor, Department of Humanities and Social Sciences, National Institute of Technology (NIT), Tiruchirappalli.	<b>Dr. V. Lakshmana Gomathi Nayagam,</b> Associate Professor, Department of Mathematics, National Institute of Technology (NIT), Tiruchirappalli.	<b>Dr. N. Gopalakrishnan,</b> Professor, Department of Physics, National Institute of Technology (NIT), Trichirappalli.	<b>Dr. R. Karvembu,</b> Professor, Department of Chemistry, National Institute of Technology (NIT), Trichirappalli.

		 31/8/23	
<b>Industrial / Corporate sector Expert</b>	<b>Department Alumni</b>	<b>Experts from outside the Autonomous college</b>	
<b>Mr. B. Ezhilavan,</b> Managing Director, VEI Technologies, Poonamallee, Chennai	<b>Mr. T. Muthurajesh,</b> Senior Testing Engineer, Wipro Technology, Chennai.	<b>Dr. M. Mahendran,</b> Professor & Head, Department of Physics, Thiagarajar College of Engineering, Madurai-625015.	<b>Dr. S. Sivailango,</b> Assistant Professor, Department of Chemistry, Thiagarajar College of Engineering, Madurai - 625 015.



## Faculty of Science and Humanities

### Board of studies Meeting - Attendance Report

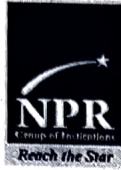
Date : 31.08.2023

Time : 10.00 a.m.

Venue: NPRCET Rear Block Seminar Hall (RBSH006)

S. No	Name	Designation	Association	Signature
1	Dr.S.Manivasan	Professor & First Year Coordinator	Board of Chairman	<i>[Signature]</i>
2	Dr. A. Tamilselvi	Professor of English	University Nominee	<i>[Signature]</i>
3	Dr. S. Mekala	Associate Professor	Subject Experts	<i>[Signature]</i> 31/8/23
4	Dr. V. Lakshmana Gomathi Nayagam	Associate Professor	Subject Experts	<i>[Signature]</i>
5	Dr. N. Gopalakrishnan	Professor	Subject Experts	<i>[Signature]</i>
6	Dr. R. Karvembu	Professor	Subject Experts	<i>[Signature]</i>
7	Mr. B. Ezhilavan	Managing Director	Industrial / Corporate sector	<i>[Signature]</i>
8	Mr. T. Muthurajesh	Senior Testing Engineer	Alumni	<i>[Signature]</i>
9	Dr. M. Mahendran	Professor & Head	Experts from outside the Autonomous college	<i>[Signature]</i> 21/8/23
10	Dr. S. Sivailango	Assistant Professor	Experts from outside the Autonomous college	<i>[Signature]</i>
11	Dr. R. Ragupathi	HOD/English	Faculty Member	<i>[Signature]</i>
12	Dr. P. Shanmugapriya	ASP/English	Faculty Member	<i>[Signature]</i>
13	Dr. P. Sulochana	AP/English	Faculty Member	<i>[Signature]</i> 31/8/23
14	Dr. M. Sridharan	HOD/Mathematics	Faculty Member	<i>[Signature]</i> 31/8/23
15	Dr. A. Kanimozhi	ASP/Mathematics	Faculty Member	<i>[Signature]</i>
16	Dr. P. Rani	ASP/Mathematics	Faculty Member	<i>[Signature]</i>
17	Mr. K. Yogunath	AP/Mathematics	Faculty Member	<i>[Signature]</i> 31/8/23
18	Mrs. D. Lakshmi	AP/Mathematics	Faculty Member	<i>[Signature]</i>
19	Mrs. C. Yogitha	AP/Mathematics	Faculty Member	<i>[Signature]</i>

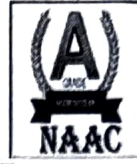






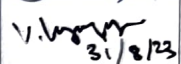

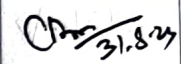
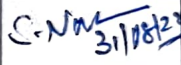


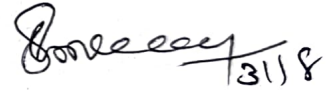
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20	Dr. P. S. Satheesh Kumar	HOD/Physics	Faculty Member	 31/8/23
21	Dr. N. Kavitha	ASP/Physics	Faculty Member	 31/8/23
22	Dr. G. Kandiban	ASP/Physics	Faculty Member	 31/8/23
23	Mr. Karuppasamy	AP/Physics	Faculty Member	 31/8/23
24	Mr. V. Vijayanarayanan	AP/Physics	Faculty Member	 31/8/23
25	Dr. N. Prabakaran	HOD/Chemistry	Faculty Member	 31/8/23
26	Dr. C. Balamurugan	Professor/Chemistry	Faculty Member	 31/8/23
27	Dr. S. Nagasubramanian	AP/Chemistry	Faculty Member	 31/8/23

  
31/8

**Dr.S.Manivasan**  
Chairman BoS





## DEPARTMENT OF SCIENCE AND HUMANITIES

### BOARD OF STUDIES MEETING

#### Action Taken

#### Department of English

In First Semester, **23HS101 Professional English I (Common to All)**

##### **Unit I**

1. It is resolved to have the title as Introduction to effective communication.

##### **Unit II**

1. It is resolved to remove the topic: words often confused.

##### **Unit III**

1. It is resolved to have discourse markers (connectives and sequence words) in II Semester Professional English II Unit I.

##### **Unit IV**

1. It is resolved to have note taking in reading.

In Second semester, **23HS201 Professional English II (Common to All)**

##### **Unit I**

1. It is resolved to include discourse markers (connectives and sequence words) in reading.
2. It is resolved to offer Agenda and Minutes of meeting in Unit III.
3. It is resolved not to have parts of speech and kinds of sentences.
4. It is resolved to have impersonal passive voiced in unit I

##### **Unit II**

1. It is resolved to have the title as Expressing Casual Relations.

##### **Unit III**

1. It is resolved to have the title as Critical Thinking and Problem Solving.
2. It is resolved to offer Agenda and Minutes of meeting in Unit III.

##### **Unit V**

1. It is resolved to have the title as cohesive writing.

#### Department of Mathematics

In First Semester, **23MA101- Matrices and Calculus (Common to All)**

1. Unit – I - It is excluded the topic Applications: Stretching of elastic membrane.
2. Interchange Unit III “**Functions of Several Variables**” as Unit II
3. Unit III - Topic to be changed as “**Integral Calculus and Multiple Integrals**”  
It contains – Definite Integrals – Properties – Problems – Double and triple integral– Cartesian, polar coordinates-Change of order of integration- application: Area between curves, volume of integrals.
4. Unit – IV - Topic to be changed as “**Vector Calculus**”  
It is suggested to include in this Unit vector calculus: Divergence- Curl – Solenoidal – Rotational – Irrotational – Line integral – Surface integral - volume integral – Green’s



Theorem, Gauss divergence and Stoke's Theorem (Without proof) -Simple applications involving cubes and rectangular parallepipeds.

5. **Unit – V** - It is suggested to exclude the topic “Method of Undetermined Coefficients”.

In Second Semester,

1. **23MA201- Statistics and Numerical Methods** (Common for B.E Civil, Mechanical and B.Tech. AI&DS).
2. **From the concern of department of EEE BOS**, We Introduced the course **23MA202 - Transforms and Numerical Methods** instead of the course 23MA201- Statistics and Numerical Methods.
3. **As per BOS concern, the department of ECE**, we renamed the course 23MA203- Partial Differential Equations and Transforms as **23MA203 - Transforms and Partial Differential Equations**.

After completion of our BOS members meeting, we framed the syllabus as quantifying and qualifying. From our autonomy body to suggest some modification and inclusion we incorporate the framed syllabus as students concern.

### Department of Physics

**In First Semester, 23PH101 Engineering Physics** (Common for B.E. Civil, CSE, EEE, Mech, B.Tech. IT and AI&DS)

1. The experts suggested to change the content named as **Smart phone reception instead of cell phone reception in Unit II Electromagnetic field and waves**. We agree the experts' suggestions to incorporate our unit II in first semester Engineering Physics.
2. **From the concern of department of ECE**, the members of BOS recommended to introduced the course **23PH102 – Physics for Electronics Engineering** instead of the course **23PH101 – Engineering Physics**. Due to append of Physics for Electronics Engineering in new course 23PH102.

**In Second Semester, 23PH204 Physics for Mechanical Engineering** (For B.E. Mech)

1. **As per BOS members and subject experts recommended**, we agreed to change the course content in specific of fundamentals of Engineering materials and Metallurgy and title changed as **23PH204 Materials Science and Technology**.





## Department of Chemistry

In First Semester, **23CY101 - Engineering Chemistry (Common to All)**

\* From the department of B.E Civil and Mechanical Engineering BOS, they need the Polymer Science and composites in Unit III.

\* We included and modification of Unit III as Polymer and Composites.

\* Our BOS Experts Suggested the changes about Water Technology Introduction, we Included the suggestion and acknowledged by the experts.

\* The department of ECE need to reduce the content of the Syllabus, unfortunately the experts framing the syllabus as the students concerns.