



Academic Year : 2023-2024

Board of Studies Meeting- MINUTES

The meeting of the Eleventh Board of Studies in Department of SCIENCE&HUMANITIES Undergraduate programme was conducted on 15 May 2023 at 10.30 am through both Physical and Online Mode (Google Meet).

Venue : Library & Link : <https://meet.google.com/pnk-taht-vof>

The following members were present:

S.No	Name of the Person	Department	Position
1	<b>Dr. K.P.Uma</b> HoD of Science and Humanities, Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.:9442021062 E-mail: umamaths95@gmail.com	S&H	Chairman
2	<b>Dr.C.Porkodi</b> Professor, Department of Mathematics, PSG College of Technology, Mobile: 7550357410 E-mail: cpg.maths@psgtech.ac.in	Mathematics	University Nominee
3	<b>Dr.N.Muthukumarasamy,</b> Prof. and Head Department of Physics, Coimbatore Institute of Technology, Coimbatore – 641 014. Mobile No.9442954202 Vishnukutty2002@yahoo.co.in	Physics	Subject Expert
4	<b>Dr.Joseph Ponniah</b> Professor, Department of English National Institute of Technology, Tiruchirappalli. Mobile No :9487368155 E mail:josephponniahr@gmail.com	English	Subject Expert /Member from QIS rated Institution
5	<b>Dr. P.A.Periasamy</b> Associate Professor in Chemistry, Dr.Mahalingam College of Engineering and Technology Mobile: 7373227754 E-mail: pap@drmcet.ac.in	Chemistry	Subject Expert
6	<b>Dr. Lakshmana Gomathi Nayagam. V</b> Professor, Department of Maths National Institute of Technology, Tiruchirappalli Mobile No :9443881718 E mail:velulakshmanan@nit.edu	Mathematics	Subject Expert /Member from QIS rated Institution
8	<b>Ms. A. Narmatha</b> Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9843268171 E-mail: narmadhakrishna@gmail.com	Mathematics	Member
9	<b>Dr.K.Kannan</b> Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842257356 E-mail: Kannan.maths@hicet.ac.in	Mathematics	Member
9	<b>Dr. K. Sivakumar</b> Associate Professor of Physics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842048708	Physics	Member

	E-mail:sivakphy@gmail.com		
10	<b>Ms. B. Jeyagowri</b> Assistant Professor of Chemistry Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9894245562 E-mail:gowrivasu2007@gmail.com	Chemistry	Member
11	<b>Dr.E.Sumathi</b> Assistant Professor of English Department of Science and Humanities Hindusthan College of Engineering and Technology Mobile No.: 9994334100 E-mail: marimuthunarmatha@gmail.com	English	Member
12	<b>Dr. .S.Padma</b> Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9940900391 E-mail: Padma.maths@hicet.ac.in	Mathematics	Autonomous Coordinator
13	<b>Dr.T.Rojamary</b> Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9659471916 E-mail: rojamaray.maths@hicet.ac.in	Mathematics	Autonomous Coordinator
14	<b>Mr.A.Sivaganesh</b> Asso.Analyst, WIPRO, Olympia Tech Park, Guindy, Chennai.	---	Alumni

The Chairman of BoS Dr.K.P. UMA greeted all the dignitaries for the meeting and introduced BoS members.

Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 10.02.2023 and it was approved. Chairman also gave an outline of the scheme of new regulations R2022 and changes to be brought in the curriculum and syllabus discussed in the Department Advisory Committee (DAC) Meeting held on 08.05.2023.

### **Recommendations by BoS Subject Experts (Subject Related)**

#### **22HE1151 & 22HE2151 - ENGLISH FOR ENGINEERS & EFFECTIVE TECHNICAL COMMUNICATION:**

- It was discussed in the meeting that all units for odd sem and even sem syllabi must include reading parts.
- In addition, the syllabus is being modified, and reading components are included.

#### **22MA3106 –DISCRETE MATHEMATICS AND 22MA3103 - DISCRETE MATHEMATICS AND GRAPH THEORY (CSE )OF III SEMESTER**

- Jean-Paul Tremblay and R. Manohar "Discrete Mathematical Structures with Applications to Computer Science" book may be included in the list of Text/Reference books.

#### **22PH1151 - PHYSICS FOR NON- CIRCUIT ENGINEERING I – SEM (AERO,AUTO,AGRI,CHEM,CIVIL,MECH,MCT &FT)**

- The topic - Testing of thickness of surface- Michelson interferometer may be included in the third unit Wave Optics.

### Employability Enhancement and Mandatory courses:

- ✚ As per Anna University direction, LLLLLLLLLL /Heritage of Tamils and LLLLLLLLLL LLLLLLLLLLLLLLLLLL / Tamils and Technology are to be introduced with one credit in the I and II semester curriculum respectively.
- ✚ It is recommended to change the existing Mandatory courses of Indian Constitution and Essence of Indian Traditional Knowledge from I & II semester to higher semesters (III and IV semester respectively) for the students admitted in the year 2023 and onwards.
- ✚ Also as per the recommendation of Stake holders given in Department Advisory committee meeting, it is suggested to bring the Introduction to soft skill course in the I semester (with Zero credit) and the Soft skills and Aptitude -I course in the II semester (with one credit) which would be enhancing the employability skills.
- ✚ It is recommended to Universal Human values as the mandatory course in Semester I with zero credit.

### The following resolutions were made in the Board of Studies meeting,

- The syllabi R2022 of Science and Humanities subjects of with few revisions in I semester , III semester Mathematics papers for the new Regulation 2022 and scheme of II & IV semester Mathematics for the students admitted during the academic year 2023 - 2024 were passed and permitted to move on Academic Council during the BoS conducted on 15.05.2023.
- The following courses with few revisions in the regulation 2022 were passed in the board of studies held on 15.05.2023.

**Courses are - Matrices And Calculus, Physics For Non Circuit Engineering, Chemistry For Circuit Engineering, English For Engineers, Universal Human Values, Heritage of Tamil, Introduction to Soft skills & Entrepreneurship & Innovation (Common to all branches).**

- The following courses (Regulation 2022) which were passed in the previous academic year and ratified in the current board of studies of department of Electrical and Electronics Engineering, Computer Science Engineering and Information Technology- and permitted to move on the forthcoming Academic Council .

**Courses are - Basics Of Electrical Engineering for CSE & AIML, Fundamentals Of Electrical, Electronics and Instrumentation Engineering for EIE , Python Programming and Practices for AGRI, CHEM, FT,AERO, AUTO, CIVIL,MECH and Problem Solving Using C Programming for EEE, EIE, CSE, IT, AIML. Engineering Drawing for AGRI, BME, CHEM,,AERO, AUTO, CIVIL,MECH, MECT,IT,FT,EEE and Electron Devices for ECE**

The meeting came to an end at 01.00p.m with the vote of thanks.

### Enclosure:

1. Previous BoS meeting Minutes
2. Action Taken Report.
3. Curriculum and Syllabi

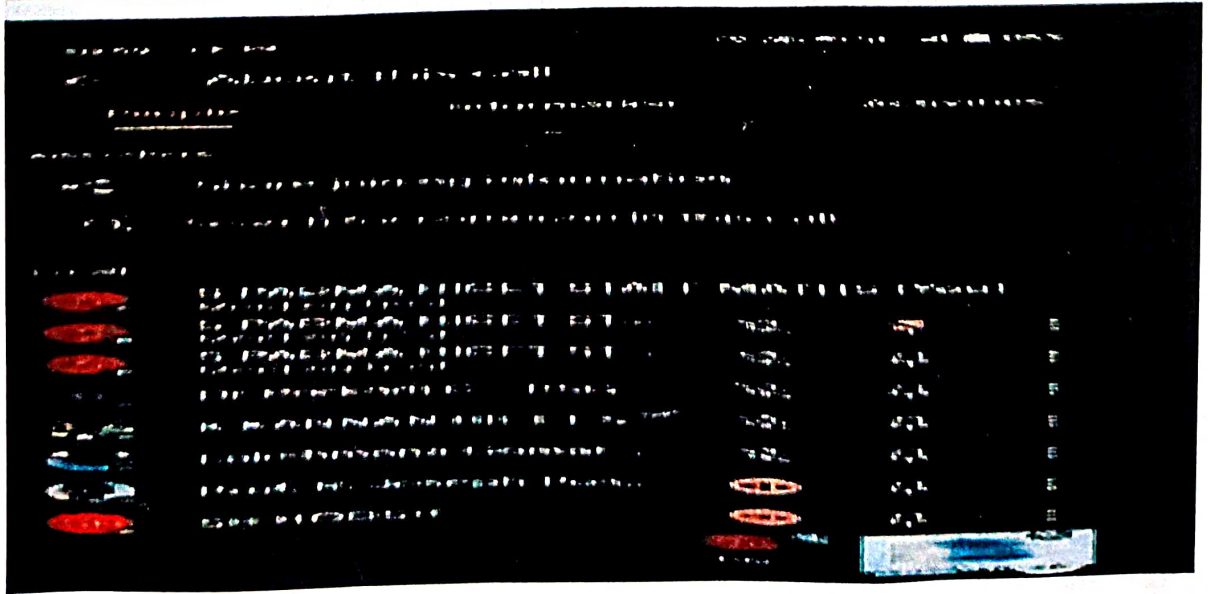
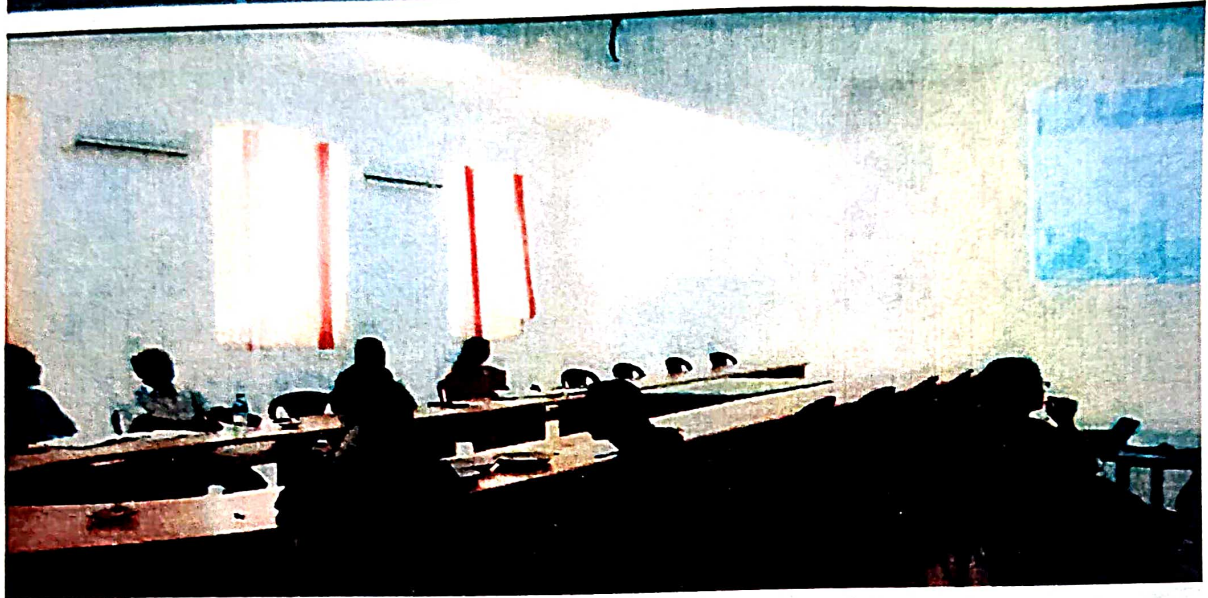
### Copy:

1. The Principal
2. Dean Academics
3. Controller of Examinations
4. All the Members of BoS
5. File



**Chairman**

**(Board of studies)**



# Hindusthan College of Engineering and Technology

Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC  
(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Coimbatore - 641 032

## DEPARTMENT OF SCIENCE & HUMANITIES

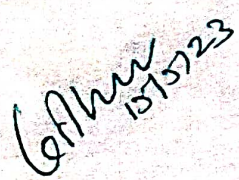
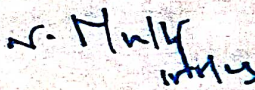
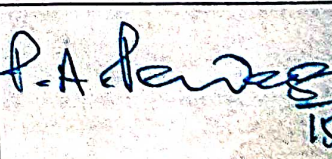
### MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: -Science & Humanities

Date: 15.05.2023

The Tenth Board of Studies meeting of regulation 2022 for the academic year 2023-2024 Even Semester was conducted on 15.05.2023 at 10.15 a.m. in Library, Hindusthan College of Engineering and Technology.

The following members were present:

S.No.	Name of the Member	Position	Signature
1.	Dr. K.P.Uma, HoD of Science and Humanities, Hindusthan College of Engineering & Technology, Coimbatore-641 032 Mobile No.:9442021062 ,E-mail: umamaths95@gmail.com	Chairman	
2.	Dr.C.Porkodi ,Professor,Department of Mathematics, PSG College of Technology,Mobile: 7550357410E- mail: cpg.maths@psgtech.ac.in	University Nominee	Attended thru' online.
3.	Dr.N.Muthukumarasamy,Prof. and Head, Department of Physics, Coimbatore Institute of Technology,Coimbatore - 641 014. Mobile No.9442954202, Vishnukutty2002@yahoo.co.in	Academic Expert - Physics	
4.	Dr. Joseph Ponniah, Professor,,Department of English National Institute of Technology, Tiruchirappalli. Mobile No :9487368155,E_mail:josephponniahr@gmail.com	Academic Expert- English (from QIS rated Institution)	Attended thru' online.
5.	Dr. P.A.Periasamy, Associate Professor in Chemistry, Dr. Mahalingam College of Engineering and Technology Mobile: 7373227754,E-mail: pap@drmct.ac.in	Academic Expert- Chemistry	
6.	Dr. Lakshmana Gomathi Nayagam. V, Professor, Department of Maths National Institute of Technology, Tiruchirappalli Mobile No :9443881718, E_mail:velulakshmanan@nit.edu	Academic Expert- Mathematics (from QIS rated Institution)	Attended thru' online

7.	Ms. A. Narmatha, Assistant Professor of Mathematics Hindusthan College of Engineering & Technology, Coimbatore-641 032 Mobile No.: 9843268171, E-mail: narmadhakrishna@gmail.com	Member	
8.	Dr. K. Kannan, Professor of Mathematics Hindusthan College of Engineering & Technology, Coimbatore-641 032 Mobile No.: 9842257356, E-mail: Kannan.maths@hicet.ac.in	Member	
9.	Dr. K. Sivakumar, Associate Professor of Physics Hindusthan College of Engineering & Technology, Coimbatore-641 032 Mobile No.: 9842048708, E-mail: sivakphy@gmail.com	Member	
10.	Ms. B. Jeyagowri, Assistant Professor of Chemistry Hindusthan College of Engineering & Technology, Coimbatore-641 032 Mobile No.: 9894245562, E-mail: gowrivasu2007@gmail.com	Member	
11.	Dr. E. Sumathi, Assistant Professor of English Department of Science and Humanities, Hindusthan College of Engineering and Technology Mobile No.: 9994334100, E-mail: marimuthunarmatha@gmail.com	Member	
12.	Ms. S. Padma, Assistant Professor of Mathematics Hindusthan College of Engineering & Technology, Coimbatore-641 032 Mobile No.: 9940900391, E-mail: Padma.maths@hicet.ac.in	Autonomous Coordinator	
13.	Dr. T. Rojamy, Assistant Professor of Mathematics Hindusthan College of Engineering & Technology, Coimbatore-641 032 Mobile No.: 9659471916, E-mail: rojamy.maths@hicet.ac.in	Autonomous Coordinator	
14.	Mr. A. Sivaganesh, Asso. Analyst, WIPRO, Olympia Tech Park, Guindy, Chennai	Alumni Member	Attended thru' online

Academic Year : 2023-2024

Board of Studies Meeting- MINUTES

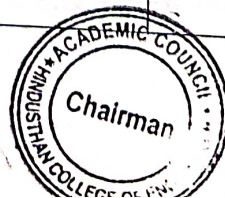
The meeting of the TWELFTH Board of Studies in Department of SCIENCE&HUMANITIES Undergraduate programme was conducted on 24 NOV 2023 at 12.00 p.m.

Venue : Library - Conference Hall.

1.12.2023

MEMBERS

S.No	Name of the Person	Department	Position
1	Dr. K.P.Uma HoD of Science and Humanities, Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.:9442021062 ,E-mail: umamaths95@gmail.com	S&H	Chairman
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3	Dr.N.Muthukumarasamy, Prof. and Head Department of Physics, Coimbatore Institute of Technology, Coimbatore – 641 014. Mobile No.9442954202,Vishnukutty2002@yahoo.co.in	Physics	Subject Expert
4	Dr.Joseph Ponniah Professor, Department of English National Institute of Technology, Tiruchirappalli. Mobile No :9487368155,E_mail:josephponniahr@gmail.com	English	Subject Expert /Member from QIS rated Institution
5	Dr. P.A.Periasamy Associate Professor in Chemistry, Dr.Mahalingam College of Engineering and Technology Mobile: 7373227754,E-mail: pap@drmcet.ac.in	Chemistry	Subject Expert
6	Dr. Lakshmana Gomathi Nayagam. V Professor, Department of Maths National Institute of Technology, Tiruchirappalli Mobile No :9443881718 E mail:velulakshmanan@nit.edu	Mathematics	Subject Expert /Member from QIS rated Institution
9	Dr.K.Kannan Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842257356,E-mail: Kannan.maths@hicet.ac.in	Mathematics	Member
9	Dr. K. Sivakumar Professor of Physics Hindusthan College of Engineering & Technology Coimbatore-641 032	Physics	Member



	Mobile No.: 9842048708,E-mail:sivakphy@gmail.com		
10	Ms. B. Jeyagowri Associate Professor of Chemistry Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9894245562,E-mail:gowrivasu2007@gmail.com	Chemistry	Member
11	Dr.Justin Diraviam Assistant Professor of English Department of Science and Humanities Hindusthan College of Engineering and Technology Mobile No.: 9994334100,E-mail:marimuthunarmatha@gmail.com	English	Member
12	Dr.S.Padma Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9940900391,E-mail: Padma.maths@hicet.ac.in	Mathematics	Autonomous Coordinator
13	Ms.A.Gomathi Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9659471916,E-mail:rojamy.maths@hicet.ac.in	Mathematics	Autonomous Coordinator
14	Mr.A.Sivaganesh Asso.Analyst, WIPRO, Olympia Tech Park, Guindy, Chennai.	---	Alumni

The Chairman of BoS Dr.K.P. UMA greeted all the dignitaries for the meeting and introduced BoS members.

Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 10.02.2023 and it was approved. Chairman also gave an outline of the scheme of new regulations R2022 and changes to be brought in the curriculum and syllabus discussed in the Department Advisory Committee (DAC) Meeting held on 08.05.2023.

Recommendations by BoS Subject Experts (Subject Related)

**ENGLISH**

**22HE2151 - EFFECTIVE TECHNICAL COMMUNICATION:**

No changes required in the existing syllabus of semester II.

Grammar to be taught to sharpen their grammatical competence.

Project on testing LSRW skills of students through worksheets which will be helpful for them to improve their employability skills.

**MATHEMATICS**

**FOR SEMESTER II**

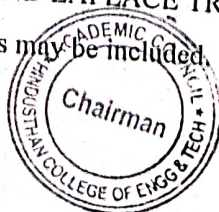
**22MA2101 - DIFFERENTIAL EQUATIONS AND COMPLEX ANALYSIS**

Unit II -  $e^{ax} f(x)$  may be included.

Unit V - For Cauchy's integral theorem, it is enough to have problems alone. It may be mentioned "without proof".

**22MA2102 - DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS**

Unit IV- Initial and Final value problems may be included.



Unit V - Basic problems of Convolution theorem may be included.

#### 22MA2103 - DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA

Unit V - Inner product space may be included as first topic of the unit. Symmetric and Skew symmetric matrices also may be included.

Book of V.Krishnamurthi, J.L Arora of Linear Algebra may be given as reference book.

#### FOR SEMESTER IV

#### 22MA4103 - PROBABILITY AND OPERATION RESEARCH

Unit III - may be allotted with only 6 hours & Unit IV - Linear Programming problems may be allotted with 12 hours .

#### 22MA4152 - APPLIED STATISTICS WITH R PROGRAMMING & QUEUING THEORY (CSE)

Unit II - Only Correlation & Regression may be given.

#### 22MA4102 - APPLIED STATISTICS WITH R PROGRAMMING & QUEUING THEORY (CSE)

Unit II - Only Correlation & Regression may be given.

PHYSICS - No changes required for the following courses of II semester.

#### 22PH2101 - BASICS OF MATERIAL SCIENCE

#### 22PH2151 -PHYSICS FOR CIRCUIT ENGINEERING PROGRAMME

**FOLLOWING COURSES ARE RECOMMENDED FOR Ph.D COURSE WORK by the Physics Board.**

- Synthesis of Nano materials,
- Physico chemical methods for characterization of nano materials,
- Physics and chemistry of materials
- Physical and chemical treatment systems for water and wastewater
- Characterization techniques
- Polymer Nano composites
- Advances in crystal growth and characterization
- Crystal growth techniques
- Crystal Structure Analysis

CHEMISTRY - No changes required for the following courses of II semester.

#### 22CY2151 -Chemistry for Engineers

#### 22CY2152 - Applied Chemistry

#### 22CY2101 - Environmental Studies

**FOLLOWING COURSES ARE RECOMMENDED FOR Ph.D COURSE WORK by the Chemistry Board.**

- Synthesis of Nano materials,
- Physico chemical methods for characterization of nano materials,
- Physics and chemistry of materials.a
- Physical and chemical treatment systems for water and waste water,
- Characterization techniques,
- Polymer Nano composites and Environmental nano technology.

## LIFE SKILL COURSES

Syllabus of the following life skill courses of R2019 are ratified and also recommended to move on academic council.

- 21LSZ401 - General Studies for Competitive Examinations.
- 21LSZ402 - Human rights, Women rights and Gender equality.
- 21LSZ403 - Indian Ethos and Human Values.
- 21LSZ404 - Indian Constitution and Political System.
- 21LSZ405 - Yoga for Human Excellence.

## GENERAL SUGGESTIONS

English board insisted on concentrating on language skills to enable students to appreciate the language critically. The board members also highly commended the variety of texts incorporated in the syllabus for General English.

Stake holders suggested that Soft skill courses from the first semester itself is highly valued and suggested that it will be highly beneficial for the career of the students.

It is recommended by the Academic experts that to change the title of Physics for Non circuit Engineering as Engineering Applications of Physics , Physics for Circuit Engineering as Physics for Engineers and Chemistry for circuit Engineering as Engineering Applications of Chemistry in the first and second semester respectively.

**The following resolutions were made in the Board of Studies meeting,**

- The syllabi of R2022 of Science and Humanities subjects with few revisions in II semester , IV semester Mathematics papers for the new Regulation 2022 for the students admitted during the academic year 2022 -2023 & 2023 - 2024 respectively were passed and permitted to move on Academic Council during the BoS conducted on 24.11.2023 .
- The following courses (with few revisions) in the regulation 2022 were ratified in the board of studies held on 24.11.2023.
- **Syllabus from the Board of Science & Humanities** - 22MA2101 - Differential Equations and Complex Analysis, 22MA2102 - Differential Equations And Laplace Transforms. 22MA2103 - Differential Equations and Linear Algebra, 22MA2104 - Fourier Analysis and Laplace Transforms , 22MA2105 - Partial Differential Equations, Fourier Series and Transforms, 22PH2101- Basics of Material Science , 22PH2151 - Physics For Circuit Engineering, 22CY2151 - Chemistry For Engineers, 22CY2152 - Applied Chemistry, 22HE2151 - Effective Technical Communication, 22HE2071- Design Thinking, 22HE2073 - Soft Skills and Aptitude - I, 22MC2095 - Tamil and Technology were ratified and permitted to move on Academic Council by the BoS members of Science and Humanities for the students admitted during the academic year 2022-2023 and onwards.
- **Syllabus from the board of service departments** - 22CH2202 – Introduction to Chemical Engineering by Chemical Engineering department, 22AG2201 – Principles and Practices of Crop Production by Agriculture Engineering Department, 22EE2101 – Basics of Electrical and Electronics Engineering & 22EE2201- Basics of Electrical and Communication Engineering by the Electrical and Electronics Engineering department, 22ME2101 – Engineering Mechanics and 22ME2001 – Engineering Practices by Mechanical Engineering Department, 22IT2201 – Web Technology by the department of Information Technology, 22IT2251 – Python Programming and

Practices, 22MT 2251 – Fundamentals of Mechatronics Engineering, 22PH2102 – Applied Mechanics by the department of Mechatronics Engineering, 22CS2152 – Essentials of C and C++ programming, Programming using C and C++ and by the Computer Science Engineering Department , 22EI2251 – Electronic Devices and Circuits by the department of Electronics and Instrumentation Engineering were ratified by the respective departments and permitted to move on Academic Council by the BoS members of Science and Humanities for the students admitted during the academic year 2022-2023 and onwards.

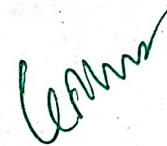
The meeting winded up with the vote of thanks by 01.00p.m.

Enclosure:

1. Previous BoS meeting Minutes
2. Action Taken Report.
3. Curriculum and Syllabi

Copy:

1. The Principal
2. Dean Academics
3. Controller of Examinations
4. All the Members of BoS
5. File



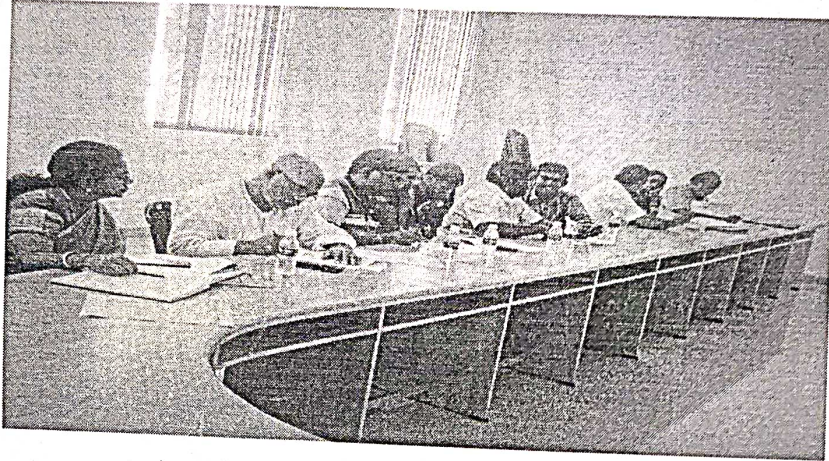
Chairman

(Board of studies)

**Chairman - BoS**  
**S&H - HICET**

BoS - Chairman  
S&H - HICET



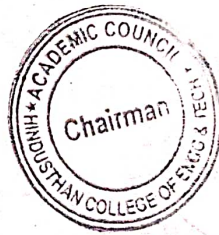


BoS - Chairman  
S&H - HICET

*[Handwritten Signature]*  
Chairman

(Board of studies)

**Chairman - BoS  
S&H - HICET**



1. Based on the discussions and deliberations the following are the set target value for CO attainment target for individual courses of first year were set as 55% for Regulations R 2022 for the students admitted in the academic year 2023 -2024.
2. Range of CO attainment levels was set for 2023-24 batch as
  - for attainment greater than or equal 61% and less than 70%
  - for greater than or equal to 71% and less than or equal to 80%
  - for greater than 80%.
3. Chairperson spell out the CO-PO mapping methodology for the forthcoming semester courses and the Assessment levels for the courses are
  - 3- strong
  - 2- moderate
  - 1 -low