

Website: www.jntuk.edu.in  
E-mail: registrar@jntuk.edu.in



Phone: Off: 0884-2300900  
Fax: 0884-2300901

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
Kakinada-533003, Andhra Pradesh, India  
(Established by A.P Act.30 of 2008)

Letter No. DAP/DNRCE&T(9P)/BoS/2024

Date: 15.07.2024

**Dr. L. SUMALATHA**

*M. Tech., Ph.D.,*

**REGISTRAR**

To  
The Principal  
DNR College of Engineering and Technology (Autonomous)  
Bhimavaram.

Sir,

Sub: JNTU Kakinada – Academic Planning – Board of Studies (BoS) Members to  
“DNR College of Engineering and Technology (Autonomous), (CC:9P),  
Bhimavaram – Reg.

Ref: Note orders of the Vice-Chancellor, JNTUK, Kakinada dated 15.07.2024.

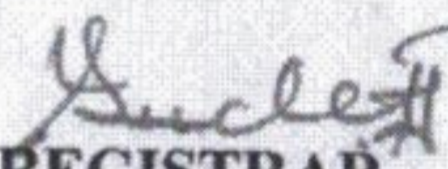
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With reference cited above, the Hon'ble Vice-Chancellor JNTUK, Kakinada is pleased to nominate the following members for Board of Studies (BoS) of “DNR College of Engineering and Technology, (CC:9P), (Autonomous), Bhimavaram” for three academic years i.e. 2024-25, 2025-26 and 2026-27

| S. No. | Name of the Department                       | Name of the BoS Members  |
|--------|--|--|
| 1      | Civil Engineering                            | Prof. P Subba Rao<br>Professor, CE Department<br>UCEK, JNTUK, Kakinada         |
| 2      | EEE Department                               | Prof. K. Ravindra<br>Professor, EEE Department<br>UCEK, JNTUK, Kakinada        |
| 3      | ME Department                                | Dr. D. Linga Raju<br>Assoc., Professor, ME Department<br>UCEK, JNTUK, Kakinada |
| 4      | ECE Department                               | Prof. B. T. Krishna<br>Professor, ECE Department<br>UCEK, JNTUK, Kakinada      |
| 5      | CSE Department                               | Prof. N. Ramakrishnaiah<br>Professor, CSE Department<br>UCEK, JNTUK, Kakinada  |
| 6      | Artificial Intelligence and Data Science     | Prof. ASN. Chakravarthy<br>Professor, CSE Department<br>UCEK, JNTUK, Kakinada  |
| 7      | Artificial Intelligence and Machine Learning | Prof. D. Haritha<br>Professor, CSE Department<br>UCEK, JNTUK, Kakinada         |

|    |  |   |
|----|--|---|
| 8  | Information Technology   | Prof. N. Ramakrishaiiah<br>Professor, CSE Department<br>UCEK, JNTUK, Kakinada                                     |
| 9  | MBA Department   | Prof. P. Uma Maheswari Devi<br>Professor, Dept., of Commerce and<br>Management Studies<br>AKNU, Rajamahendravaram |
| 10 | Mathematics Department   | Prof. K. Ravindranath<br>Professor, Mathematics Department<br>UCEK, JNTUK, Kakinada                               |
| 11 | English Department   | Prof. K. Sree Ramesh<br>Professor, Dept., of English<br>AKNU, Rajamahendravaram                                   |
| 12 | Physics Department   | Prof. G. Padmaja Rani<br>Professor, Physics Department<br>UCEK, JNTUK, Kakinada                                   |
| 13 | Chemistry Department   | Dr. S. Satya Veni<br>Asst., Professor, Chemistry Dept.,<br>UCEK, JNTUK, Kakinada                                  |
| 14 | NSS/NCC/Scouts &<br>Guides/Community Service Health and<br>Wellness, Yoga and Sports | Dr. G. Syam Kumar<br>Assoc., Professor, Dept. of Physical<br>Education<br>UCEK, JNTUK, Kakinada                   |

Yours Sincerely,



**REGISTRAR**  
**REGISTRAR**

J.N.T. University Kakinada  
Kakinada-533003

Copy to all the above Members

Copy to the Secretary to the Honorable Vice Chancellor, JNTU Kakinada

Copy to the Director, Academic Planning, JNTU Kakinada.



ज्ञान-विज्ञान विभूक्तये

डॉ. गोपी चंद मेरुगु  
उप सचिव

Dr. Gopi Chand Merugu  
Deputy Secretary



सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग  
University Grants Commission

(शिक्षा मंत्रालय, भारत सरकार)  
(Ministry of Education, Govt. of India)

बहादुर शाह ज़फर मार्ग, नई दिल्ली-110002  
Bahadur Shah Zafar Marg, New Delhi-110002

Ph.: +91-11 23604429  
E-mail : gopichand.ugc@gov.in

No.F. 2-10/2023(AC-Policy)

July 2024

The Registrar,  
Jawaharlal Nehru Technological University,  
Kakinada.

10 JUL 2024

Sub: - Conferment of Autonomous Status to DNR College of Engineering and Technology, Balusumudi Bhimavaram Affiliated to Jawaharlal Nehru Technological University, Kakinada.

Sir/Madam,

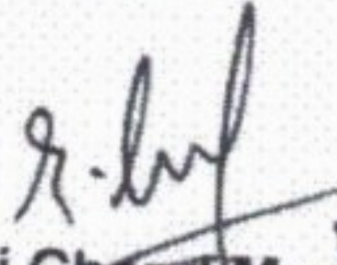
This has reference to the proposal submitted by DNR College of Engineering and Technology, Balusumudi Bhimavaram Affiliated to Jawaharlal Nehru Technological University, Kakinada for conferment of autonomous status.

The Commission in its meeting held on 25.06.2024 has approved the recommendation of the Standing Committee on Autonomous Colleges to confer the autonomous status to **DNR College of Engineering and Technology, Balusumudi Bhimavaram Affiliated to Jawaharlal Nehru Technological University, Kakinada** for a period of 10 years from the academic year 2024-2025 to 2033-2034 as per clause 7.5 of the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023.

The University, is therefore, requested to issue necessary notification within 30 days regarding the grant of autonomous status to the College as per UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023.

The autonomous college is required to abide by all the provisions of the UGC Regulations for Autonomous Colleges. The Regulations are available on the UGC website, www.ugc.gov.in. Non-compliance of the requirements and conditions prescribed in the said Regulations shall attract action as per Clause -13 of the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023. The college should apply to University Grants Commission for extension of autonomous status at least three months before the completion of autonomy period.

Yours faithfully,

  
(Dr. Gopi Chand Merugu)  
Deputy Secretary  
10/07/2024

Cont..

: 2:

Copy to: -

1. **The Principal Secretary,  
Andhra Pradesh State Council of Higher Education  
Sree Mahendra Enclave, NRI Block (C-Block)  
I & II Floors, Opposite State Bank of India  
Adjacent to NH-16, Tadepalli, Guntur-522 501**

2. **The Principal  
DNR College of Engineering and Technology,  
Balusumudi Bhimavaram**

- (i) The College is advised to go for the required NAAC/NBA accreditation at least six months before the expiry of current validity and obtain the grading NAAC/NBA as per the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023 and intimate the Same to UGC to revisit the above decision, if required.
- (ii) The College/Institute is advised to submit a report regarding Examination Cell and constitution of Statutory Bodies as required under Clauses 11 and 12 of the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023 to ensure proper management of academic, financial, and general administrative affairs. Non-compliance of the above shall attract action as per Clause -13 of the UGC Regulations – 2023.
- (iii) The College/Institute is advised to take necessary steps for implementation of NEP 2020 and intimate the UGC.

  
(Dr. Gopi Chand Merugu)  
Deputy Secretary  
10/07/2024



# D.N.R. COLLEGE OF ENGINEERING & TECHNOLOGY

## AUTONOMOUS

Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
Accredited by A++ Grade by NAAC & Accredited by NBA (B.Tech - CSC, ECE & EEE)  
Balusumudi, **BHIMAVARAM - 534 202**, W.G.Dist., (A.P)

Fax No : 08816 - 221236, Phones : 08816 - 221237, 38, E-mail : dnr cet@gmail.com., web : www.dnrcet.org

Dt: 09-01-2026

### Circular

Sub: DNR College of Engineering & Technology, Bhimavaram- Department of BS&H (English) - Board of Studies meeting - Invitation - Reg.

We take the privilege to invite you for the Board of Studies meeting at DNR College of Engineering & Technology in the Department of BS&H (English), on 19-01-2026 (Tuesday) at 10:30 A.M. through Zoom online platform.

<https://us06web.zoom.us/j/89517282322?pwd=vIFmv0e96cva0ZeNPqfqLRbaWfwtRl.1>

#### Agenda:

1. Introduction of members
2. To discuss and finalize the proposed III B. Tech. I & II Semester Soft Skills Lab course of DR -24 Regulations.
3. To discuss and finalize the proposed III B. Tech. II Semester Technical Paper Writing & IPR a mandatory course of DR -24 Regulations.
4. To finalize the Evaluation procedure for Continuous Internal Evaluation (CIE) and Semester End Evaluation (SEE).
5. Ratification of Course Objectives and Course Out comes, CO – PO Mapping for the proposed subject.
6. Finalization of Text Books and Reference Books.
7. Any other item with the permission of the chairman.

In this regard, all the members are requested to attend the online mode of Board of Studies meeting of **English** from the Department of BS&H on 19-01-2026 (Tuesday) at 10:30 A.M. The online meeting link will be mailed you shortly. Kindly accept our invitation and make it convenient to attend the meeting.

Thanking you Sir/Madam,

Yours faithfully,

Dr. G. G. Ratnam

HoD, Basic Sciences & Humanities  
D.N.R. College of Engineering & Technology  
**HEAD**  
**Dept. of Basic Sciences**  
**J.N.R. College of Engg. & Tech**  
**BHIMAVARAM-534 202.**

#### Copy to:

1. The Principal, DNR CET
2. The members of BOS
3. The Dean, Academics
4. Office file



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Fax No : 08816 - 221236, Phones : 08816 - 221237, 38, E-mail : dnrct@gmail.com., web : www.dnrct.org

Dt: 09-01-2026.

To

Dr.K. Sree Ramesh  
Professor, Dept. of English  
Adikavi Nannaya University,  
Rajamahendravaram  
Sir,

Sub: DNR College of Engineering & Technology, Bhimavaram- Department of BS&H (English) - Board of Studies meeting - Invitation - Reg.

We take the privilege to invite you for the Board of Studies meeting at DNR College of Engineering & Technology in the Department of BS&H (English), on 19-01-2026 (Tuesday) at 10:30 A.M. through Zoom online platform.

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Thanking you Sir,

Yours faithfully,

Dr. G. G. Ratnam

HoD, Basic Sciences & Humanities  
D.N.R. College of Engineering & Technology  
**HEAD**  
**Dept. of Basic Sciences**  
**D.N.R. College of Engg. & Tech**  
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Fax No : 08816 - 221236, Phones : 08816 - 221237, 38, E-mail : dnrcet@gmail.com., web : www.dnrcet.org



Dt: 09-01-2026.

To  
Dr B V N Lakshmi  
Head Dept. of English & Foreign Language,  
SRKR Engineering College,  
Bhimavaram  
Andhra Pradesh.  
Madam,

Sub: DNR College of Engineering & Technology, Bhimavaram- Department of BS&H (English) - Board of Studies meeting - Invitation - Reg.

We take the privilege to invite you for the Board of Studies meeting at DNR College of Engineering & Technology in the Department of BS&H (English), on 19-01-2026 (Tuesday) at 10:30 A.M. through Zoom online platform.

<https://us06web.zoom.us/j/89517282322?pwd=vIFmv0e96cva0ZeNPqfqLRbaWfwtRl.1>

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6. Finalization of Text Books and Reference Books.
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Thanking you Madam,

Yours faithfully,

Dr. G. G. Ratnam

HoD, Basic Sciences & Humanities  
D.N.R. College of Engineering & Technology  
**Dept. of Basic Sciences**  
**D.N.R. College of Engg. & Tech**  
**BHIMAVARAM-534 202.**



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Fax No : 08816 - 221236, Phones : 08816 - 221237, 38, E-mail : dnrct@gmail.com., web : www.dnrcet.org

Dt: 09-01-2026.

To  
Dr. D. Vijayalakshmi  
Associate Professor  
Vishnu Institute of Technology  
Bhimavaram  
Andhra Pradesh.

Madam,

Sub: DNR College of Engineering & Technology, Bhimavaram- Department of BS&H (English) - Board of Studies meeting - Invitation - Reg.

We take the privilege to invite you for the Board of Studies meeting at DNR College of Engineering & Technology in the Department of BS&H (English), on 19-01-2026 (Tuesday) at 10:30 A.M. through Zoom online platform.

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6. Finalization of Text Books and Reference Books.
7. Any other item with the permission of the chairman.

In this regard, all the members are requested to attend the online mode of Board of Studies meeting of **English** from the Department of BS&H on 19-01-2026 (Tuesday) at 10:30 A.M. The online meeting link will be mailed you shortly. Kindly accept our invitation and make it convenient to attend the meeting.

Thanking you Madam,

Yours faithfully,

Dr. G. G. Ratnam

HoD, Basic Sciences & Humanities  
D.N.R. College of Engineering & Technology  
**HEAD**  
**Dept. of Basic Sciences**  
**D.N.R. College of Engg. & Tech**  
**BHIMAVARAM-534 202.**



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Ph: 08816-221238 Email: [dncet@gmail.com](mailto:dncet@gmail.com) website: <https://dncet.org>

Dt: 09-01-2026

## Circular

Sub: DNR College of Engineering & Technology, Bhimavaram- Department of BS&H (English) - Board of Studies meeting - Invitation - Reg.

We take the privilege to invite you for the Board of Studies meeting at DNR College of Engineering & Technology in the Department of BS&H (English), on 20-01-2026 ( Wednesday)at 3.00 PM . through Zoom online platform.

### Agenda:

1. Introduction of members
2. To discuss and finalize the proposed III B. Tech. I & II Semester Soft Skills Lab course of DR -24 Regulations. (**Annexure-A**)
3. To discuss and finalize the proposed III B. Tech. II Semester Technical Paper Writing & IPR a mandatory course of DR -24 Regulations. (**Annexure-A**)
4. To discuss II B Tech and III B Tech Community service and internship Project guidelines and its assessment and evaluation process.
5. To finalize the Evaluation procedure for Continuous Internal Evaluation (CIE) and Semester End Evaluation (SEE) (**Annexure-B**)
6. Ratification of Course Objectives and Course Out comes, CO – PO Mapping for the proposed subjects. (**Annexure-C**)
7. Finalization of Text Books and Reference Books. (**Annexure-D**)
8. Any other item with the permission of the chairman

In this regard, all the members are requested to attend the online mode of Board of Studies meeting of **English** from the Department of BS&H on 20-01-2026 ( Wednesday)at 10:30 A.M. The online meeting link will be mailed you shortly. Kindly accept our invitation and make it convenient to attend the meeting.

Thanking you Sir/Madam,

Yours faithfully,

Dr. G. G. Ratnam

HoD, Basic Sciences & Humanities  
D.N.R. College of Engineering & Technology

### Copy to:

1. The Principal, DNRCET
2. The members of BOS
3. The Dean, Academics
4. Office file



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## Dept of Basic Sciences & Humanities (English)

Meeting of BOS Schedule, A.Y. 2026-27

Minutes of meeting of Board of Studies, Dept of Basic Sciences & Humanities (English) held 20-01-2026 ( Wednesday )with the following points of agenda.

Venue: English Laboratory

Meeting held on: 20-01-2026, 3.00PM.

Mode of conducting meeting: Zoom online platform

Meeting link:

<https://us06web.zoom.us/j/89517282322?pwd=vIFmv0e96cva0ZeNPqfqLRbaWfwtRl.1>

### Agenda:

1. Introduction of members
2. . To discuss and finalize the proposed III B. Tech. I & II Semester Soft Skills Labcourse of DR -24 Regulations. (Annexure-A)
3. To discuss and finalize the proposed III B. Tech. II Semester Technical Paper Writing & IPR a mandatory course of DR -24 Regulations. (Annexure-A)
4. To discuss II B Tech and III B Tech Community service and internship Project guidelines and its assessment and evaluation process.
5. To finalize the Evaluation procedure for Continuous Internal Evaluation (CIE) and Semester End Evaluation (SEE) (Annexure-B)
6. Ratification of Course Objectives and Course Out comes, CO – PO Mapping for theproposed subjects. (Annexure-C)
7. Finalization of Text Books and Reference Books. (Annexure-D)
8. Any other item with the permission of the chairman

### Members Present:

| S. NO | Name(s) of the Member(s)/ | Designation   | Designation in Committee    | Signature |
|-------|---------------------------|---|-----------------------------|-----------|
| 1.    | Dr. G G Ratnam            | Professor & Head, Dept of BS&H  | Chairperson                 |           |
| 2.    | Dr. K. Sree Ramesh        | Professor, Dept. of English Adikavi Nannaya University, Rajamahendravaram | Member (University Nominee) |           |



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Ph: 08816-221238 Email: [dncet@gmail.com](mailto:dncet@gmail.com) website: <https://dncet.org>

|     |                           |  |                                  |                    |
|-----|---------------------------|--|----------------------------------|--------------------|
| 3.  | Dr. K Vijayalakshmi       | Associate professor<br>Dept. of English<br>Vishnu Institute of<br>Technology<br>Bhimavaram | Member<br>(Subject expert)       | Attended<br>online |
| 4.  | Dr. B V N Lakshmi         | Head Dept. of English<br>& Foreign Language, SRKR<br>Engineering College,<br>Bhimavaram    | Member<br>(Subject expert)       | Attended<br>online |
| 5.  | Mr. B Meshak Raju         | Asst. Professor of English,<br>DNCET   | Member                           |                    |
| 6.  | Mr. V Praveen             | Asst. Professor of English,<br>DNCET   | Member                           | <br>20/11/26       |
| 7.  | Mr. G. Moshe              | Asst. Professor of English,<br>DNCET   | Member                           |                    |
| 8.  | Mr. R Atchutha<br>Ramayya | Asst. Professor of English,<br>DNCET   | Member                           | <br>20/11/26       |
| 9.  | Mr. T. Pranams            | Managing Director<br>Pranams Hotels, Bhimavaram  | Member<br>(Industrial<br>Expert) | Attended<br>online |
| 10. | Ms. K. Siva Syamala       | R. No: 149P5A0503<br>Batch: 2013-17  | Member<br>(College alumni)       | Attended<br>online |

**Minutes of meeting of Board of Studies, Dept of Basic Sciences & Humanities (English)  
held on 19-01-2026 at 3.00PM with the following Resolutions:**

At the outset, the principal of DNCET presented his gratitude to the university nominee and other members of BOS and handed over the session to the chairman of BOS.

### **Resolution-1: Introduction of Members**

The BOS chairman welcomed and introduced the eminent professors of BOS Meeting. He briefed them about structure and pattern of the course. The BOS members expressed their appreciation for novel structure of curriculum and content of the course. The chairman of BOS placed the agenda for the deliberation of the members. The following deliberations were made as per the items of circular agenda.



# D.N.R. COLLEGE OF ENGINEERING & TECHNOLOGY AUTONOMOUS

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## **Resolution-2: Finalize of proposed III B. Tech. I & II Semester Soft Skills Labcourse of DR-24 Regulations. (Annexure-A)**

Resolved that the proposed III B. Tech. I & II Semester Soft Skills Lab course under the DR-24 Regulations is discussed in detail by the Board. Based on the valuable suggestions of the University Nominee and other members of subject expert, along with prescribed content some innovative delivery methods are discussed and finalized. The approved course emphasizes innovative and experiential learning approaches like **team-based projects** involving groups of five students, understanding **stress management and emotional balance through selected movie clippings** and illustrative activities, and the organization of **mock interviews to familiarize students with current company requirements**. In addition, basic grammar exercises are incorporated to improve accuracy and clarity in students' oral communication. After due deliberation, some sorts of enhancements is **finalized and approved for implementation from the academic year 2026-27**.

## **Resolution-3: To discuss and finalize the proposed III B. Tech. II Semester Technical Paper Writing & IPR a mandatory course of DR-24 Regulations.**

Resolved the proposed syllabus of Technical Paper Writing & IPR, a mandatory course of III B. Tech II Semester DR-24 Regulations were discussed in detail. After considering the inputs from all members, the course is finalized and approved for implementation in the upcoming academic year 2026-27.

**Resolution-4:** The committee has discussed and finalized the II B Tech and III B Tech Community service and internship Project guidelines and its assessment and evaluation process.

## **Resolution-5: Finalization of Evaluation Procedure for CIE and SEE. (Annexure-B)**

Resolved course evaluation procedure, the course shall carry 100 marks and shall be evaluated through continuous assessments during the semester for 30 sessional marks and end examination shall be for 70 marks. Day-to-day work in the class / laboratory shall be evaluated for 30 marks by the concerned teacher based on the regularity/assignments/viva/mid semester test. The end examination shall be conducted for 70 marks by the concerned teacher and an expert were discussed and finalized.

Resolved course evaluation procedure of Technical paper writing and IPR, a mandatory course. The midterm internal marks evaluated for 30 marks and Semester end exam evaluated for 70 marks by the internal faculty only

Resolved the course evaluation procedure of the community service project assessment and evaluation process is conducted within the departmental committees under the internal faculty supervision for the maximum marks of 50.

## **Resolution-6: Ratification of Course Objectives and Course Outcomes, CO – PO Mapping for the Proposed Subjects. (Annexure-C)**

Resolved the Course Objectives and Course Outcomes for the proposed subjects were reviewed and ratified. Additionally, the CO-PO mapping was discussed and approved, ensuring alignment with the educational goals of the program.



# D.N.R. COLLEGE OF ENGINEERING & TECHNOLOGY AUTONOMOUS

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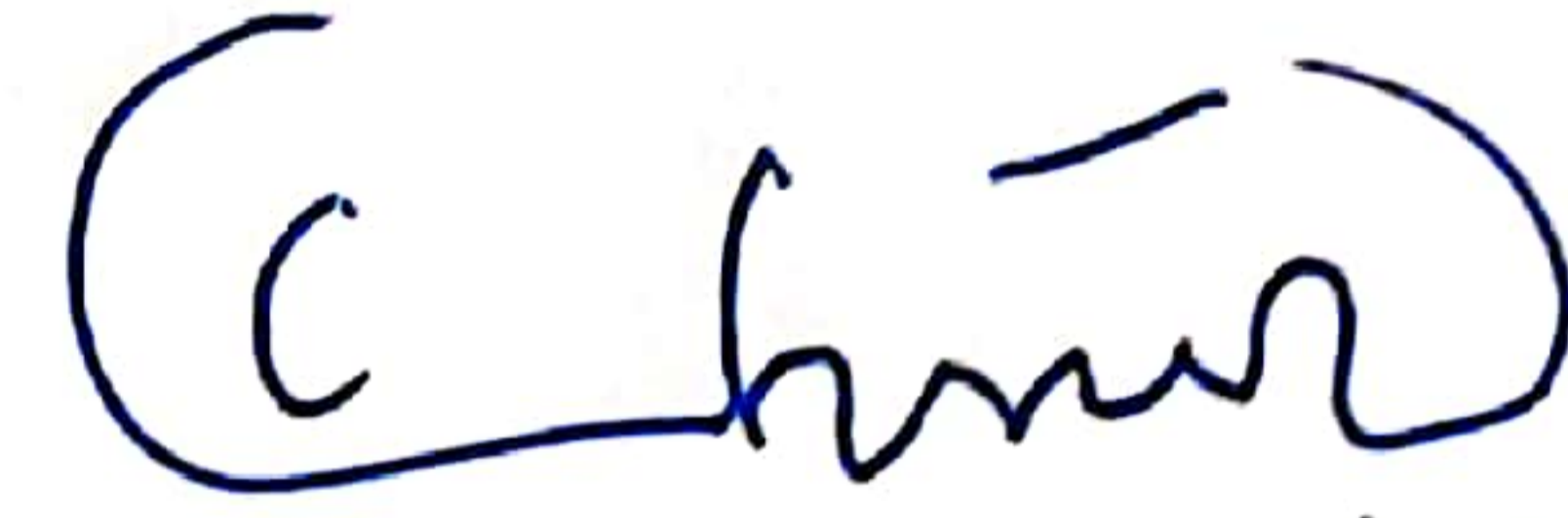
## Resolution-7: Finalization of Text Books and Reference Books. (Annexure-D)

Discussed and Resolved the textbooks and reference books for the III B. Tech I & II Semester Soft Skills, Technical Paper writing and Community service Project course. The following books were approved as the primary textbooks

## Resolution-8: Any Other Item with the Permission of the Chairman

Resolved the additional items raised with the permission of the Chairman were discussed.

The chairman concluded the meeting by summarizing all the agenda points and resolutions and closed with a note of thanks to all members for their suggestions and participation.

  
20/1/2026

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## B.Tech. CSE(AI&ML) DR24 Regulation III Year COURSE STRUCTURE & SYLLABUS

### B.Tech.–III Year I Semester

| S. No.       | Course Code | Title  | Category                 | L/D       | T        | P         | Credits   |
|--------------|-------------|--|--------------------------|-----------|----------|-----------|-----------|
| 1            | BT24ML3101  | Information Retrieval Systems  | Professional Core        | 3         | 0        | 0         | 3         |
| 2            | BT24ML3102  | Computer Networks  | Professional Core        | 3         | 0        | 0         | 3         |
| 3            | BT24ML3103  | Operating Systems  | Professional Core        | 3         | 0        | 0         | 3         |
| 4            | BT24ML31P1A | Software Engineering   | Professional Elective-I  | 3         | 0        | 0         | 3         |
|              | BT24ML31P1B | Cloud Computing  |                          |           |          |           |           |
|              | BT24ML31P1C | Internet of Things   |                          |           |          |           |           |
|              | BT24ML31P1D | Exploratory Data Analysis with Python                                  |                          |           |          |           |           |
|              | BT24ML31P1E | Automata Theory & Compiler Design                                      |                          |           |          |           |           |
| 5            |             | OR<br>Entrepreneurship Development & Venture Creation                  | Open Elective-I          | 3         | 0        | 0         | 3         |
| 6            | BT24ML3104  | Information Retrieval Lab  | Professional Core        | 0         | 0        | 3         | 1.5       |
| 7            | BT24ML3105  | Computer Networks Lab  | Professional Core        | 0         | 0        | 3         | 1.5       |
| 8            | BT24ML3106  | Full Stack Development-2 / SWAYAM Plus – Data Engineer / AI Engineer   | Skill Enhancement Course | 0         | 1        | 2         | 2         |
| 9            | BT24ML3107  | Tinkering Lab (User Interface design using Flutter)                    | ES                       | 0         | 0        | 2         | 1         |
| 10           | BT24ML3108  | Evaluation of Community Service Internship                             |                          | -         | -        | -         | 2         |
| <b>Total</b> |             |  |                          | <b>15</b> | <b>1</b> | <b>10</b> | <b>23</b> |
| MC           |             | Student may select from the same minor pool                            |                          | 3         | 0        | 3         | 4.5       |
| MC           |             | Minor Course through SWAYAM / NPTEL (Minimum 12 Week, 3 credit course) |                          | 3         | 0        | 0         | 3         |
| HC           |             | Student may select from the same Honors pool                           |                          | 3         | 0        | 0         | 3         |
| HC           |             | Student may select from the same Honors pool                           |                          | 3         | 0        | 0         | 3         |

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## B.Tech.–III Year II Semester

| S. No.  | Course Code | Title   | Category                  | L/D       | T        | P        | Credits   |
|---|-------------|---|---------------------------|-----------|----------|----------|-----------|
| 1   | BT24ML3201  | Natural Language Processing   | Professional Core         | 3         | 0        | 0        | 3         |
| 2   | BT24ML3202  | Deep Learning   | Professional Core         | 3         | 0        | 0        | 3         |
| 3   | BT24ML3203  | Data Visualization  | Professional Core         | 3         | 0        | 0        | 3         |
| 4   | BT24ML32P2A | Software Testing Methodology  | Professional Elective-II  | 3         | 0        | 0        | 3         |
|   | BT24ML32P2B | Cryptography & Network Security   |                           |           |          |          |           |
|   | BT24ML32P2C | DevOps  |                           |           |          |          |           |
|   | BT24ML32P2D | Recommender Systems   |                           |           |          |          |           |
|   | BT24ML32P2E | Any of the 12-Week SWAYAM/NPTEL Course suggested by the BoS             |                           |           |          |          |           |
| 5   | BT24ML32P3A | Software Project Management   | Professional Elective-III | 3         | 0        | 0        | 3         |
|   | BT24ML32P3B | Mobile Adhoc and Sensor Networks  |                           |           |          |          |           |
|   | BT24ML32P3C | Computer Vision   |                           |           |          |          |           |
|   | BT24ML32P3D | NoSQL Databases   |                           |           |          |          |           |
|   | BT24ML32P3E | Any of the 12-Week SWAYAM/NPTEL Course suggested by the BoS             |                           |           |          |          |           |
| 6   |             |   | Open Elective – II        | 3         | 0        | 0        | 3         |
| 7   | BT24ML3205  | Deep Learning Lab   | Professional Core         | 0         | 0        | 3        | 1.5       |
| 8   | BT24ML3206  | Data Visualization Lab  | Professional Core         | 0         | 0        | 3        | 1.5       |
| 9   | BT24BS3201  | Soft skills   | Skill Enhancement Course  | 0         | 1        | 2        | 2         |
| 10  | BT24BS3202  | Technical Paper Writing & IPR   | Audit Course              | 2         | 0        | 0        | -         |
| <b>Total</b>  |             |   |                           | <b>20</b> | <b>1</b> | <b>8</b> | <b>23</b> |
| *Mandatory Industry Internship/Mini Project of 08 weeks duration during summer vacation |             |   |                           |           |          |          |           |
| MC  |             | Student may select from the same minors pool                            |                           | 3         | 0        | 3        | 4.5       |
| MC  |             | Minor Course (Student may select from the same specialized minors pool) |                           | 3         | 0        | 0        | 3         |
| HC  |             | Student may select from the same honors pool                            |                           | 3         | 0        | 0        | 3         |
| HC  |             | Honors Course ( Student may select from the honors pool)                |                           | 3         | 0        | 0        | 3         |

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## DR24 -III<sup>rd</sup> Year COURSE STRUCTURE & SYLLABUS

### B.Tech. III Year-I Semester

| S.No         | Category                                   | Course code                                      | Title  | L         | T        | P         | C         |
|--------------|--|--|--|-----------|----------|-----------|-----------|
| 1            | Professional Core                          | BT24EE3101                                       | Power Electronics  | 3         | 0        | 0         | 3         |
| 2            | Professional Core                          | BT24EE3102                                       | Digital Circuits   | 3         | 0        | 0         | 3         |
| 3            | Professional Core                          | BT24EE3103                                       | Power systems -II  | 3         | 0        | 0         | 3         |
| 4            | Professional Elective-I                    | 1.BT24EE31P1A<br>2. BT24EE31P1B<br>3.BT24EE31P1C | 1.Signals and Systems<br>2.Computer Architecture and Organization<br>3.Communication systems | 3         | 0        | 0         | 3         |
| 5            | Open Elective-I                            | BT24HS3101                                       | OR<br>Entrepreneurship Development & Venture Creation  | 3         | 0        | 0         | 3         |
| 6            | Professional Core                          | BT24EE3104                                       | Power Electronics Lab  | 0         | 0        | 3         | 1.5       |
| 7            | Professional Core                          | BT24EE3105                                       | Analog and Digital Circuits Lab  | 0         | 0        | 3         | 1.5       |
| 8            | Skill Enhancement course                   | BT24BS3101                                       | Soft skills  | 0         | 1        | 2         | 2         |
| 9            | Engineering Science                        | BT24EE3106                                       | Tinkering Lab  | 0         | 0        | 2         | 1         |
| 10           | Evaluation of Community Service Internship | BT24BS3102                                       |  | -         | -        | -         | 2         |
| <b>Total</b> |  |  |  | <b>15</b> | <b>1</b> | <b>10</b> | <b>23</b> |

|   |    |            |   |   |   |   |     |
|---|----|------------|---|---|---|---|-----|
| 1 | MC | BT24CS31M1 | Minor Course (Student may select from the same specialized minors pool) | 3 | 0 | 3 | 4.5 |
| 2 | MC | BT24CS31M2 | Minor Course through SWAYAM/NPTEL (Minimum 12 Week, 3 credit course)    | 3 | 0 | 0 | 3   |
| 3 | HC | BT24CS31H1 | Honors Course (Student may select from the same Honors pool)            | 3 | 0 | 0 | 3   |
| 4 | HC | BT24CS31H2 | Honors Course (Student may select from the same Honors Pool)            | 3 | 0 | 0 | 3   |

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## DR24 -III<sup>rd</sup> Year COURSE STRUCTURE & SYLLABUS B.Tech. III Year-II Semester

| S.No.        | Category                  | Course code  | Title  | L         | T        | P         | C         |
|--------------|---------------------------|--|--|-----------|----------|-----------|-----------|
| 1            | Professional Core         | BT24EE3201   | Electrical Measurements and Instrumentation  | 3         | 0        | 0         | 3         |
| 2            | Professional Core         | BT24EE3202   | Microprocessors and Microcontrollers   | 3         | 0        | 0         | 3         |
| 3            | Professional Core         | BT24EE3203   | Power System Analysis  | 3         | 0        | 0         | 3         |
| 4            | Professional Elective-II  | 1. BT24EE32P2A<br>2. BT24EE32P2B<br>3. BT24EE32P2C                         | 1. Switch gear and Protection<br>2. Advanced Control Systems<br>3. Renewable and Distributed Energy Technologies | 3         | 0        | 0         | 3         |
| 5            | Professional Elective-III | 1. BT24EE32P3A<br>2. BT24EE32P3B<br>3. BT24EE32P3C                         | 1. Electric Drives<br>2. Digital Signal Processing<br>3. High Voltage Engineering                                | 3         | 0        | 0         | 3         |
| 6            | Open Elective- II         |  |  | 3         | 0        | 0         | 3         |
| 7            | Professional Core         | BT24EE3204   | Electrical Measurements and Instrumentation Lab  | 0         | 0        | 3         | 1.5       |
| 8            | Professional Core         | BT24EE3205   | Microprocessors and Microcontrollers Lab   | 0         | 0        | 3         | 1.5       |
| 9            | Skill Enhancement course  | BT24EE3206   | IoT Applications of Electrical Engineering Lab   | 0         | 1        | 2         | 2         |
| 10           | Audit Course              | BT24HS3201   | Research Methodology   | 2         | 0        | 0         | -         |
| <b>Total</b> |                           |  |  | <b>20</b> | <b>1</b> | <b>08</b> | <b>23</b> |
| MC           | BT24CS32M1                | Student may select from the same minors pool                               |  | 3         | 0        |           | 4.5       |
| MC           | BT24CS32M2                | Minor Course<br>(Student may select from the same specialized minors pool) |  | 3         | 0        |           | 3         |
| HC           | BT24CS32H1                | Student may select from the same honors pool                               |  | 3         | 0        |           | 3         |
| HC           | BT24CS32H2                | Honors Course (Student may select from the honors pool)                    |  | 3         | 0        |           | 3         |

  
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## B.Tech. CSE (DR24 Regulation III Year COURSE STRUCTURE & SYLLABUS)

| B. Tech.–III Year I Semester |   |  |          |           |          |          |           |
|------------------------------|---|--|----------|-----------|----------|----------|-----------|
| S. No.                       | Course Code   | Title  | Category | L/D       | T        | P        | Credits   |
| 1                            | BT24CS3101  | Data Warehousing and Data Mining   | PC       | 3         | 0        | 0        | 3         |
| 2                            | BT24CS3102  | Computer Networks  | PC       | 2         | 1        | 0        | 3         |
| 3                            | BT24CS3103  | Formal Languages and Automata Theory   | PC       | 3         | 0        | 0        | 3         |
| 4                            | BT24CS31P1A   | 1. Object Oriented Analysis and Design   | PE-1     | 3         | 0        | 0        | 3         |
|                              | BT24CS31P1B   | 2. Artificial Intelligence   |          |           |          |          |           |
|                              | BT24CS31P1C   | 3. Microprocessors & Microcontrollers  |          |           |          |          |           |
|                              | BT24CS31P1D   | 4. Quantum Computing   |          |           |          |          |           |
|                              | BT24CS31P1E   | 5. 12 week MOOC Swayam/<br>NPTEL course recommended by the<br>BoS  |          |           |          |          |           |
| 5                            |   | OR<br>Entrepreneurship Development & Venture<br>Creation   | OE-1     | 3         | 0        | 0        | 3         |
| 6                            | BT24CS3105  | Data Mining Lab  | PC       | 0         | 0        | 3        | 1.5       |
| 7                            | BT24CS3106  | Computer Networks Lab  | PC       | 0         | 0        | 3        | 1.5       |
| 8                            | BT24CS3107  | Full Stack development-2   | SEC      | 0         | 1        | 2        | 2         |
| 9                            | BT24CS3108  | User Interface Design using Flutter /<br>SWAYAM Plus - Android Application<br>Development (with Flutter) | ES       | 2         | 0        | 0        | -         |
| 10                           | BT24BCS3109   | Evaluation of Community Service Internship   |          |           |          |          |           |
| <b>Total</b>                 |   |  |          | <b>16</b> | <b>2</b> | <b>8</b> | <b>20</b> |
| MC                           | Minor Course (Student may select from the same specialized minors pool) |  |          | 3         | 0        | 3        | 4.5       |
| MC                           | Minor Course through SWAYAM/NPTEL (minimum 12 week, 3 credit course)    |  |          | 3         | 0        | 0        | 3         |
| HC                           | Honors Course (Student may select from the same honors pool)            |  |          | 3         | 0        | 0        | 3         |
| HC                           | Honors Course ( Student may select from the same honors pool)           |  |          | 3         | 0        | 0        | 3         |

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## B.Tech. CSE (DR24 Regulation III Year COURSE STRUCTURE & SYLLABUS)

| B. Tech – III Year II Semester |  |  |          |           |          |           |           |
|--------------------------------|--|--|----------|-----------|----------|-----------|-----------|
| S. No.                         | Course Code  | Title  | Category | L/D       | T        | P         | Credits   |
| 1                              | BT24CS3201   | Compiler Design  | PC       | 3         | 0        | 0         | 3         |
| 2                              | BT24CS3202   | Cloud Computing  | PC       | 3         | 0        | 0         | 3         |
| 3                              | BT24CS3203   | Cryptography & Network Security                                | PC       | 3         | 0        | 0         | 3         |
| 4                              | BT24CS32P2A  | 1. Software Testing Methodologies                              | PE-2     | 3         | 0        | 0         | 3         |
|                                | BT24CS32P2B  | 2. Cyber Security  |          |           |          |           |           |
|                                | BT24CS32P2C  | 3. DevOps  |          |           |          |           |           |
|                                | BT24CS32P2D  | 4. Machine Learning  |          |           |          |           |           |
|                                | BT24EC32P2E  | 5. 12 week MOOC Swayam/NPTEL course                            |          |           |          |           |           |
| 5                              | BT24CS32P3A  | 1. Software Project Management                                 | PE-3     | 3         | 0        | 0         | 3         |
|                                | BT24CS32P3B  | 2. Mobile Adhoc Networks                                       |          |           |          |           |           |
|                                | BT24CS32P3C  | 3. Natural Language Processing                                 |          |           |          |           |           |
|                                | BT24CS32P3D  | 4. Big Data Analytics  |          |           |          |           |           |
|                                | BT24CS32P3E  | 5. Distributed Operating System                                |          |           |          |           |           |
|                                | BT24CS32P3F  | 6. 12 week MOOC Swayam/NPTEL course recommended by the BoS     |          |           |          |           |           |
| 6                              |  | Open Elective – II   | PC       | 3         | 0        | 0         | 3         |
| 7                              | BT24CS3204   | Cloud Computing Lab  | PC       | 0         | 0        | 3         | 1.5       |
| 8                              | BT24CS3205   | Cryptography & Network Security Lab                            | SEC      | 0         | 0        | 3         | 1.5       |
| 9                              |  | Soft skills // SWAYAM Plus - 21st Century Employability Skills | BS & H   | 0         | 1        | 2         | 2         |
| 10                             |  | Technical Paper Writing & IPR                                  | BS & H   | 2         | 0        | 0         | -         |
| <b>Total</b>                   |  |  |          | <b>20</b> | <b>1</b> | <b>08</b> | <b>23</b> |
| 11                             | Mandatory Industry Internship / Mini Project of 08 weeks duration during summer vacation |  |          |           |          |           |           |
| MC                             | Minor Course (Student may select from the same specialized minors pool)                  |  |          | 3         | 0        | 3         | 4.5       |
| MC                             | Minor Course (Student may select from the same specialized minors pool)                  |  |          | 3         | 0        | 0         | 3         |
| HC                             | Honors Course (Student may select from the same honors pool)                             |  |          | 3         | 0        | 0         | 3         |
| HC                             | Honors Course (Student may select from the honors pool)                                  |  |          | 3         | 0        | 0         | 3         |

\* Under Industry Internship interested students can pursue SWAYAM Plus courses viz., Hands-on Masterclass on Data Analytics OR Artificial Intelligence for Real-World Application

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## B.Tech. AI&DS (DR24 Regulation III Year COURSE STRUCTURE & SYLLABUS)

| B.Tech. – III Year I Semester |             |   |                          |           |          |           |           |
|-------------------------------|-------------|---|--------------------------|-----------|----------|-----------|-----------|
| S. No.                        | Course Code | Title   | Category                 | L/D       | T        | P         | Credits   |
| 1                             | BT24DS3101  | Data Warehousing and Data Mining  | Professional Core        | 3         | 0        | 0         | 3         |
| 2                             | BT24DS3102  | Principles of Machine Learning  | Professional Core        | 3         | 0        | 0         | 3         |
| 3                             | BT24DS3103  | Data Visualization  | Professional Core        | 3         | 0        | 0         | 3         |
| 4                             | BT24DS31P1A | Object Oriented Analysis and Design                                     | Professional Elective-I  | 3         | 0        | 0         | 3         |
|                               | BT24DS31P1B | Soft computing  |                          |           |          |           |           |
|                               | BT24DS31P1C | Internet of Thing   |                          |           |          |           |           |
|                               | BT24DS31P1D | Exploratory Data Analysis with Python                                   |                          |           |          |           |           |
| 5                             | BT24HS3101  | OR<br>Entrepreneurship Development & Venture Creation                   | Open Elective-I          | 3         | 0        | 0         | 3         |
| 6                             | BT24DS3104  | Data Warehousing and Machine Learning Lab                               | Professional Core        | 0         | 0        | 3         | 1.5       |
| 7                             | BT24DS3105  | Data Visualization Lab  | Professional Core        | 0         | 0        | 3         | 1.5       |
| 8                             | BT24DS3106  | Full Stack Development-2 / SWAYAM Plus – Data Engineer/ AI Engineer     | Skill Enhancement Course | 0         | 1        | 2         | 2         |
| 9                             | BT24DS3109  | Tinkering Lab<br>(User Interface design using Flutter)                  | ES                       | 0         | 0        | 2         | 1         |
| 10                            | BT24DS3110  | Evaluation of Community Service Internship                              |                          | -         | -        | -         | 2         |
| <b>Total</b>                  |             |   |                          | <b>15</b> | <b>1</b> | <b>10</b> | <b>23</b> |
| MC                            |             | Minor Course (Student may select from the same specialized minors pool) |                          | 3         | 0        | 3         | 4.5       |
| MC                            |             | Minor Course through SWAYAM / NPTEL (Minimum 12 Week, 3 credit course)  |                          | 3         | 0        | 0         | 3         |
| HC                            |             | Honors Course (Student may select from the same Honors pool)            |                          | 3         | 0        | 0         | 3         |
| HC                            |             | Honors Course (Student may select from the same Honors Pool)            |                          | 3         | 0        | 0         | 3         |

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| B.Tech.–III Year II Semester  |             |   |                           |           |          |          |           |
|---|-------------|---|---------------------------|-----------|----------|----------|-----------|
| S. No.  | Course Code | Title   | Category                  | L/D       | T        | P        | Credits   |
| 1   | BT24DS3201  | Big Data Analytics  | Professional Core         | 3         | 0        | 0        | 3         |
| 2   | BT24DS3202  | Deep Learning   | Professional Core         | 3         | 0        | 0        | 3         |
| 3   | BT24DS3203  | Natural Language Processing   | Professional Core         | 3         | 0        | 0        | 3         |
| 4   | BT24DS32P2A | Cryptography & Network Security   | Professional Elective-II  | 3         | 0        | 0        | 3         |
|   | BT24DS32P2B | Operating Systems   |                           |           |          |          |           |
|   | BT24DS32P2C | Recommender Systems   |                           |           |          |          |           |
|   | BT24DS32P2D | Computer Vision   |                           |           |          |          |           |
|   | BT24DS32P2E | Automata Theory & Compiler Design                                       |                           |           |          |          |           |
| 5   | BT24DS32P3A | Quantum Computing   | Professional Elective-III | 3         | 0        | 0        | 3         |
|   | BT24DS32P3B | NoSQL databases   |                           |           |          |          |           |
|   | BT24DS32P3C | Cloud Computing   |                           |           |          |          |           |
|   | BT24DS32P3D | Social Media Analytics  |                           |           |          |          |           |
|   | BT24DS32P3E | Any of the 12-Week SWAYAM /NPTEL Course suggested by the BoS            |                           |           |          |          |           |
| 6   |             |   | Open Elective – II        | 3         | 0        | 0        | 3         |
| 7   | BT24DS3204  | Deep Learning & Natural Language Processing Lab                         | Professional Core         | 0         | 0        | 3        | 1.5       |
| 8   | BT24DS3205  | Big Data Analytics Lab  | Professional Core         | 0         | 0        | 3        | 1.5       |
| 9   | BT24BS3201  | Soft skills / SWAYAM Plus - Century Employability Skills                | Skill Enhancement Course  | 0         | 1        | 2        | 2         |
| 10  | BT24BS3202  | Technical Paper Writing & IPR   | Audit Course              | 2         | 0        | 0        | -         |
| <b>Total</b>  |             |   |                           | <b>20</b> | <b>1</b> | <b>8</b> | <b>23</b> |
| *Mandatory Industry Internship/Mini Project of 08 weeks duration during summer vacation |             |   |                           |           |          |          |           |
| MC  |             | Student may select from the same minors pool                            |                           | 3         | 0        | 3        | 4.5       |
| MC  |             | Minor Course (Student may select from the same specialized minors pool) |                           | 3         | 0        | 0        | 3         |
| HC  |             | Student may select from the same honors pool                            |                           | 3         | 0        | 0        | 3         |
| HC  |             | Honors Course ( Student may select from the honors pool)                |                           | 3         | 0        | 0        | 3         |

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## DEPARTMENT OF BASIC SCIENCES & HUMANITIES

|                     |  |   |   |   |   |
|---------------------|--|---|---|---|---|
| Year/Semester       | III B.Tech- I & II Semesters               | L | T | P | C |
| Regulation Year     | DR-24                                      | 0 | 1 | 2 | 2 |
| Name of the Subject | SOFT SKILLS- <i>BT24BS3101, BT24BS3201</i> |   |   |   |   |
| Branch              | EEE, CSE, AI&DS & AI&ML                    |   |   |   |   |

### Course Objectives:

- To equip the students with the skills to effectively communicate in English
- To train the students in interview skills, group discussions and presentation skills
- To motivate the students to develop confidence
- To enhance the students' interpersonal skills
- To improve the students' writing skills

### Course Outcomes:

| COs | Statements   | Blooms Level |
|-----|--|--------------|
| CO1 | <b>Demonstrate</b> analytical thinking and active listening skills to make informed decisions and effectively solve real-world problems.       | K5           |
| CO2 | <b>Implement</b> self-management strategies to develop resilience, and goal-oriented behavior in academic and professional environments.       | K3           |
| CO3 | <b>Use</b> standard grammar structures accurately in both speaking and writing to ensure clear and effective communication in global contexts. | K3           |
| CO4 | <b>Develop</b> job-oriented communication and presentation skills that align with current industry standards and digital tools.                | K6           |
| CO5 | <b>Build</b> and sustain effective interpersonal relationships through empathy, teamwork in diverse professional settings.                     | K4           |
| CO6 | <b>Integrate</b> critical thinking, workplace readiness, and social intelligence to succeed in today's competitive job market.                 | K6           |

**UNIT – I: Analytical Thinking & Listening Skills:** Self-Introduction, Shaping Young Minds - A Talk by Azim Premji (Listening Activity), Self – Analysis, Developing Positive Attitude, Perception.

Communication Skills: Verbal Communication; Non Verbal Communication (Body Language)

**UNIT – II: Self-Management Skills:** Anger Management, Stress Management, Time Management, Six Thinking Hats, Team Building, Leadership Qualities  
Etiquette: Social Etiquette, Business Etiquette, Telephone Etiquette, Dining Etiquette



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**UNIT – III: Standard Operation Methods:** Basic Grammars, Tenses, Prepositions, Pronunciation, Letter Writing; Note Making, Note Taking, Minutes Preparation, Email & Letter Writing

**UNIT-IV: Job-Oriented Skills:** Group Discussion, Mock Group Discussions, Resume Preparation, Interview Skills, Mock Interviews

**UNIT-V: Interpersonal relationships:** Introduction, Importance, Types, Uses, Factors affecting interpersonal relationships, Accommodating different styles, Consequences of interpersonal relationships

**Text books:**

1. Barun K. Mitra, Personality Development and Soft Skills, Oxford University Press, 2011.
2. S.P. Dhanavel, English and Soft Skills, Orient Blackswan, 2010.

**Reference books:**

1. R.S. Aggarwal, A Modern Approach to Verbal & Non-Verbal Reasoning, S.Chand & Company Ltd., 2018.
2. Raman, Meenakshi & Sharma, Sangeeta, Technical Communication Principles and Practice, Oxford University Press, 2011.

**E-resources:**

[https://swayam-plus.swayam2.ac.in/courses/course-details?id=P\\_CAMBR\\_01](https://swayam-plus.swayam2.ac.in/courses/course-details?id=P_CAMBR_01)

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## Model Practical Question Paper INTERNAL PRACTICAL EXAMINATIONS

Name of the Lab & Code: **SOFT SKILLS- BT24BS3101, BT24BS3201**

Class: III B. Tech I & II Semesters

Time: 3 hours

Max Marks: 30

**I Answer Any ONE of the Following questions. Each question carries**

**5M**

- A. Write a short note on Shaping Young Mind by Azim Premji  
(Or)
- B. Write a easy on self management skills  
(Or)
- C. Answer the following questions each question carries ½ mark
1. Which of the following is the *best* way to manage anger?
    - a) Shouting to release emotions
    - b) Ignoring the situation completely
    - c) Taking deep breaths and calming down before responding
    - d) Blaming others for the problem
  2. Which activity is most effective for reducing stress?
    - a) Overworking to avoid thinking about stress
    - b) Regular exercise and relaxation techniques
    - c) Ignoring signs of fatigue
    - d) Arguing with coworkers
  3. The first step in managing time effectively is to:
 

|                            |                                      |
|----------------------------|--------------------------------------|
| a) Avoid making a schedule | b) Wait until deadlines are near     |
| c) Do tasks randomly       | d) Identify priorities and set goals |
  4. The *Yellow Hat* in the Six Thinking Hats method represents:
 

|                                   |                             |
|-----------------------------------|-----------------------------|
| a) Caution and critical thinking  | b) Feelings and emotions    |
| c) Optimism and positive thinking | d) Creativity and new ideas |
  5. The *Black Hat* focuses on:
 

|                                   |                             |
|-----------------------------------|-----------------------------|
| a) Identifying risks and problems | b) Exploring creative ideas |
| c) Expressing emotions            | d) Generating optimism      |
  6. A successful team is built on:
 

|                            |  |
|----------------------------|--|
| a) Competition and secrecy | b) Trust, communication, and cooperation |
| c) Individual success only | d) Conflict and misunderstanding         |
  7. A good leader should primarily:
 

|  |  |
|--|--|
| a) Command and control without listening | b) Avoid responsibility                    |
| c) Work alone to avoid mistakes          | d) Inspire and guide the team toward goals |
  8. Which of the following is a *physical symptom* of stress?
 

|                            |                                 |
|----------------------------|---------------------------------|
| a) Increased concentration | b) Headaches and muscle tension |
| c) Calm breathing          | d) Happiness                    |



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9. Using a *to-do list* helps a person:
- a) Organize and track daily activities
  - b) Forget important tasks
  - c) Waste more time
  - d) Avoid planning altogether
10. Which of the following best describes a *team player*?
- a) Someone who focuses only on personal goals
  - b) Someone who avoids responsibility
  - c) Someone who supports and collaborates with others
  - d) Someone who dominates team discussions

|  |     |
|--|-----|
| II ACTIVITY (Oral Presentation – Group/Individual)<br>Group discussion/Debate/Role play/JAM on given topic | 5M  |
| III Viva-Voce  | 5M  |
| IV. Day to Day & Record  | 15M |

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## INTERNAL EXAMINATIONS

Name of the Lab & Code: **SOFT SKILLS- BT24BS3101, BT24BS3201**  
Class: **III B. Tech I Semester**

Time: 3 hours

Max Marks: 30

### Scheme of Evaluation

**I Answer Any ONE of the Following questions. Each question carries (For 1&2 questions)**

**5M**

- Introduction (1 Mark)
- Detailed explanation of the key concept (2 Marks)
- Importance and Application (1 Mark)
- Conclusion (1 Mark)

**3. Question Key**

1. C 2. B 3.D 4.C 5.A 6.B 7.D 8.B 9.A 10.C

**II ACTIVITY (Oral Presentation – Group/Individual)**

**5M**

- Content (3 Marks)
- Fluency (1 Mark)
- Body Language (1 Mark)

**III Viva-Voce**

**5M**

- Content relevance (3 Mark)
- Fluency & Body Language (2 Marks)

**IV. Day to Day & Record**

**15M**

- Observation & Record (5 Marks)
- Assignments (Oral/written on each unit) (10 Marks)

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## EXTERNAL EXAMINATIONS

Name of the Lab & Code: **SOFT SKILLS- BT24BS3101, BT24BS3201**  
Class: III B. Tech I Semester Time: 3 hours Max Marks: 70

**I Answer Any THREE of the Following questions. Each question carries 30M**

1. How does self-analysis help in developing a positive attitude and improving one's perception towards life and work? Discuss with relevant examples.
2. Discuss how good leadership qualities contribute to successful team building and achievement of organizational goals.
3. Write an email to your college principal requesting permission to organize a cultural event on campus. Mention the purpose, date, and benefits of the event.

**II ACTIVITY (Oral Presentation – Group/Individual) 20M**

Group discussion/Debate/Role play/JAM on given topic

**III Viva-Voce 20M**

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## Model Practical Question Paper EXTERNAL PRACTICAL EXAMINATIONS

Name of the Lab & Code: **SOFT SKILLS- BT24BS3101, BT24BS3201**

Class: **III B. Tech I & II Semester**

Time: 3 hours

Max Marks: 70

### Scheme of Evaluation

**I Answer Any THREE of the Following questions. Each question carries 10 Marks 3X10=30M**


- Introduction (2 Mark)
- Detailed explanation of the key concept (4 Marks)
- Importance and Application (3 Mark)
- Conclusion (1 Mark)

**II ACTIVITY (Oral Presentation – Group/Individual)**

- Content (10 Marks) 20 M
- Fluency (5 Marks)
- Body Language (5 Marks)

**III Viva-Voce**

- Content relevance (10 Marks) 20 M
- Fluency & Body Language (10 Marks)

  
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III B Tech I & II Semester

Course Name: **SOFT SKILLS- BT24BS3101, BT24BS3201**

## COURSE OUT COMES

After completion of this course the student will be able to learn

| COs | Statements   | Blooms Level |
|-----|--|--------------|
| CO1 | <b>Demonstrate</b> analytical thinking and active listening skills to make informed decisions and effectively solve real-world problems.       | K5           |
| CO2 | <b>Implement</b> self-management strategies to develop resilience, and goal-oriented behavior in academic and professional environments.       | K3           |
| CO3 | <b>Use</b> standard grammar structures accurately in both speaking and writing to ensure clear and effective communication in global contexts. | K3           |
| CO4 | <b>Develop</b> job-oriented communication and presentation skills that align with current industry standards and digital tools.                | K6           |
| CO5 | <b>Build</b> and sustain effective interpersonal relationships through empathy, teamwork in diverse professional settings.                     | K4           |
| CO6 | <b>Integrate</b> critical thinking, workplace readiness, and social intelligence to succeed in today's competitive job market.                 | K6           |

### CO-PO Mapping

| Cos            | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8        | PO9        | PO10       | PO11 | PO12       |
|----------------|-----|-----|-----|-----|-----|-----|-----|------------|------------|------------|------|------------|
| CO 1           | -   | -   | -   | -   | -   | -   | -   | 2          | 2          | 3          | -    | 2          |
| CO 2           | -   | -   | -   | -   | -   | -   | -   | 2          | 3          | 2          | -    | 3          |
| CO 3           | -   | -   | -   | -   | -   | -   | -   | 2          | 2          | 3          | -    | 2          |
| CO 4           | -   | -   | -   | -   | -   | -   | -   | 2          | 3          | 3          | -    | 2          |
| CO 5           | -   | -   | -   | -   | -   | -   | -   | 2          | 3          | 2          | -    | 2          |
| CO 6           | -   | -   | -   | -   | -   | -   | -   | 3          | 3          | 3          | -    | 3          |
| <b>Overall</b> | -   | -   | -   | -   | -   | -   | -   | <b>2.1</b> | <b>2.6</b> | <b>2.6</b> | -    | <b>2.3</b> |

### MAPPING LEVELS:

Correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

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## Department of Basic Sciences and Humanities

Course Name: SOFT SKILLS- BT24BS3101, BT24BS3201

The following books were approved as the primary textbooks for Soft Skills Laboratory

### Text books:


1. Barun K. Mitra, Personality Development and Soft Skills, Oxford University Press, 2011.
2. S.P. Dhanavel, English and Soft Skills, Orient Blackswan, 2010.

### Reference books:

1. R.S. Aggarwal, A Modern Approach to Verbal & Non-Verbal Reasoning, S.Chand & Company Ltd., 2018.
2. Raman, Meenakshi & Sharma, Sangeeta, Technical Communication Principles and Practice, Oxford University Press, 2011.

### E-resources:

[https://swayam-plus.swayam2.ac.in/courses/course-details?id=P\\_CAMBR\\_01](https://swayam-plus.swayam2.ac.in/courses/course-details?id=P_CAMBR_01)

  
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|                      |                               |   |   |   |   |
|----------------------|-------------------------------|---|---|---|---|
| III Year II Semester | TECHNICAL PAPER WRITING & IPR | L | T | P | C |
|                      |                               | 2 | 0 | 0 | - |

**Course Objective :** The course will explain the basic related to writing the technical reports and understanding the concepts related to formatting and structuring the report. This will help students to comprehend the concept of proofreading, proposals and practice

### Course Outcomes

| COs | Statements   | Blooms Level |
|-----|--|--------------|
| CO1 | <i>Apply</i> basic principles of technical writing to plan, structure, and write clear technical reports and minutes of meetings.                                      | K3           |
| CO2 | <i>Draft</i> and <i>edit</i> technical reports using proper design, grammar, plain English, and effective illustrations.   | K6           |
| CO3 | <i>Prepare</i> accurate summaries and <i>present</i> final technical reports and proposals using effective written and verbal skills.                                  | K3           |
| CO4 | <i>Use</i> word processing tools to format, edit, review, protect, and manage technical documents efficiently.   | K3           |
| CO5 | <i>Understand</i> the concepts, processes, and international aspects of intellectual property and patent development.  | K2           |
| CO6 | <i>Develop</i> clear, well-structured technical documents by applying effective writing, editing, presentation, word-processing, and intellectual property principles. | K6           |

**Unit I: Introduction:** An introduction to writing technical reports, technical sentences formation, using transitions to join sentences, Using tenses for technical writing. Planning and Structuring: Planning the report, identifying reader(s), Voice, Formatting and structuring the report, Sections of a technical report, Minutes of meeting writing.

**Unit II: Drafting report and design issues:** The use of drafts, Illustrations and graphics. Final edits: Grammar, spelling, readability and writing in plain English: Writing in plain English, Jargon and final layout issues, Spelling, punctuation and Grammar, Padding, Paragraphs, and Ambiguity.

**Unit III: Proof reading and summaries:** Proofreading, summaries, Activities on summaries. Presenting final reports: Printed presentation, Verbal presentation skills, Introduction to proposals and practice.



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**Unit IV: Using word processor:** Adding a Table of Contents, Updating the Table of Contents, Deleting the Table of Contents, Adding an Index, Creating an Outline, Adding Comments, Tracking Changes, Viewing Changes, Additions, and Comments, Accepting and Rejecting Changes, Working with Footnotes and Endnotes, Inserting citations and Bibliography, Comparing Documents, Combining Documents, Mark documents final and make them read only., Password protect Microsoft Word documents., Using Macros,

**Unit V: Nature of Intellectual Property:** Patents, Designs, Trade and Copyright. Process of Patenting and Development: technological research, innovation, patenting, development. International Scenario: International cooperation on Intellectual Property

### TextBooks:

1. Kompal Bansal & Parshit Bansal, "Fundamentals of IPR for Beginner's", 1<sup>st</sup> Ed., BS Publications, 2016.
2. William S. Pfeiffer and Kaye A. Adkins, "Technical Communication: A Practical Approach", Pearson.
3. Ramappa, T., "Intellectual Property Rights Under WTO", 2<sup>nd</sup> Ed., S Chand, 2015.


### Reference Books:

1. Adrian Wallwork, English for Writing Research Papers, Springer New York Dordrecht Heidelberg London, 2011.
2. Day R, How to Write and Publish a Scientific Paper, Cambridge University Press (2006)

### E-resources:

1. <https://www.udemy.com/course/reportwriting/>
2. <https://www.udemy.com/course/professional-business-english-and-technical-report-writing/>
3. <https://www.udemy.com/course/betterbusinesswriting/>

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III B Tech II Semester

Course Name: **Technical Paper Writing and IPR**

COURSE OUT COMES

After completion of this course the student will be able to learn

| COs | Statements   | Blooms Level |
|-----|--|--------------|
| CO1 | <i>Apply</i> basic principles of technical writing to plan, structure, and write clear technical reports and minutes of meetings.                                      | K3           |
| CO2 | <i>Draft</i> and <i>edit</i> technical reports using proper design, grammar, plain English, and effective illustrations.   | K6           |
| CO3 | <i>Prepare</i> accurate summaries and <i>present</i> final technical reports and proposals using effective written and verbal skills.                                  | K3           |
| CO4 | <i>Use</i> word processing tools to format, edit, review, protect, and manage technical documents efficiently.   | K3           |
| CO5 | <i>Understand</i> the concepts, processes, and international aspects of intellectual property and patent development.  | K2           |
| CO6 | <i>Develop</i> clear, well-structured technical documents by applying effective writing, editing, presentation, word-processing, and intellectual property principles. | K6           |

## CO-PO Mapping

| Cos     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO 1    | 2   | -   | -   | -   | -   | -   | -   | -   | -   | 3    | -    | 1    |
| CO 2    | 2   | -   | -   | -   | 1   | -   | -   | -   | -   | 3    | -    | 1    |
| CO 3    | -   | -   | -   | -   | -   | -   | -   | -   | 2   | 3    | -    | 1    |
| CO 4    | -   | -   | -   | -   | 3   | -   | -   | -   | -   | 2    | -    | 2    |
| CO 5    | -   | -   | -   | -   | -   | -   | -   | 3   | -   | -    | 2    | 2    |
| CO 6    | 2   | -   | -   | -   | 2   | -   | -   | 2   | 2   | 3    | -    | 2    |
| Overall | 2   | -   | -   | -   | 2   | -   | -   | 2.5 |     | 2.8  | 1    | 1.5  |

## MAPPING LEVELS:

Correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

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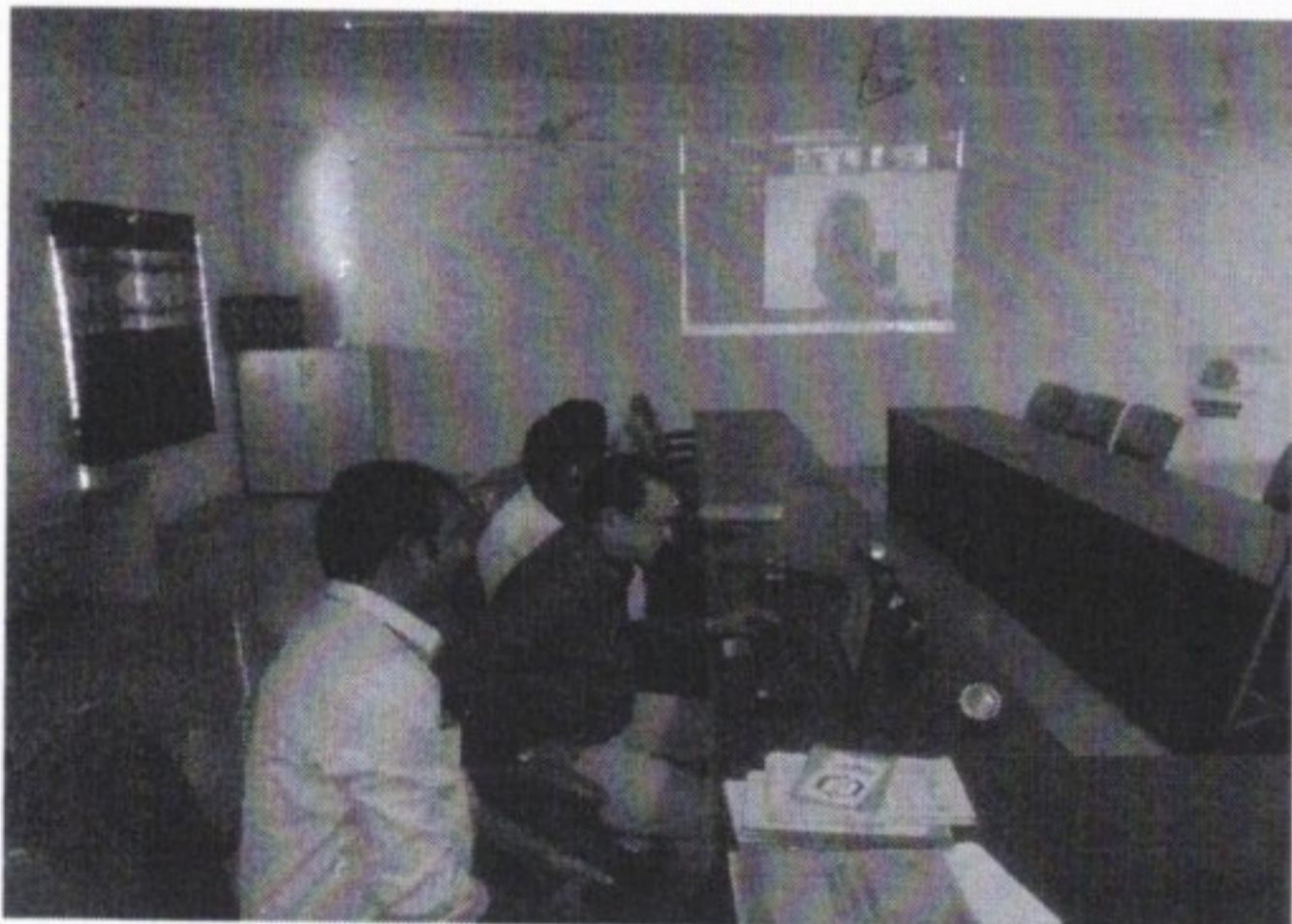
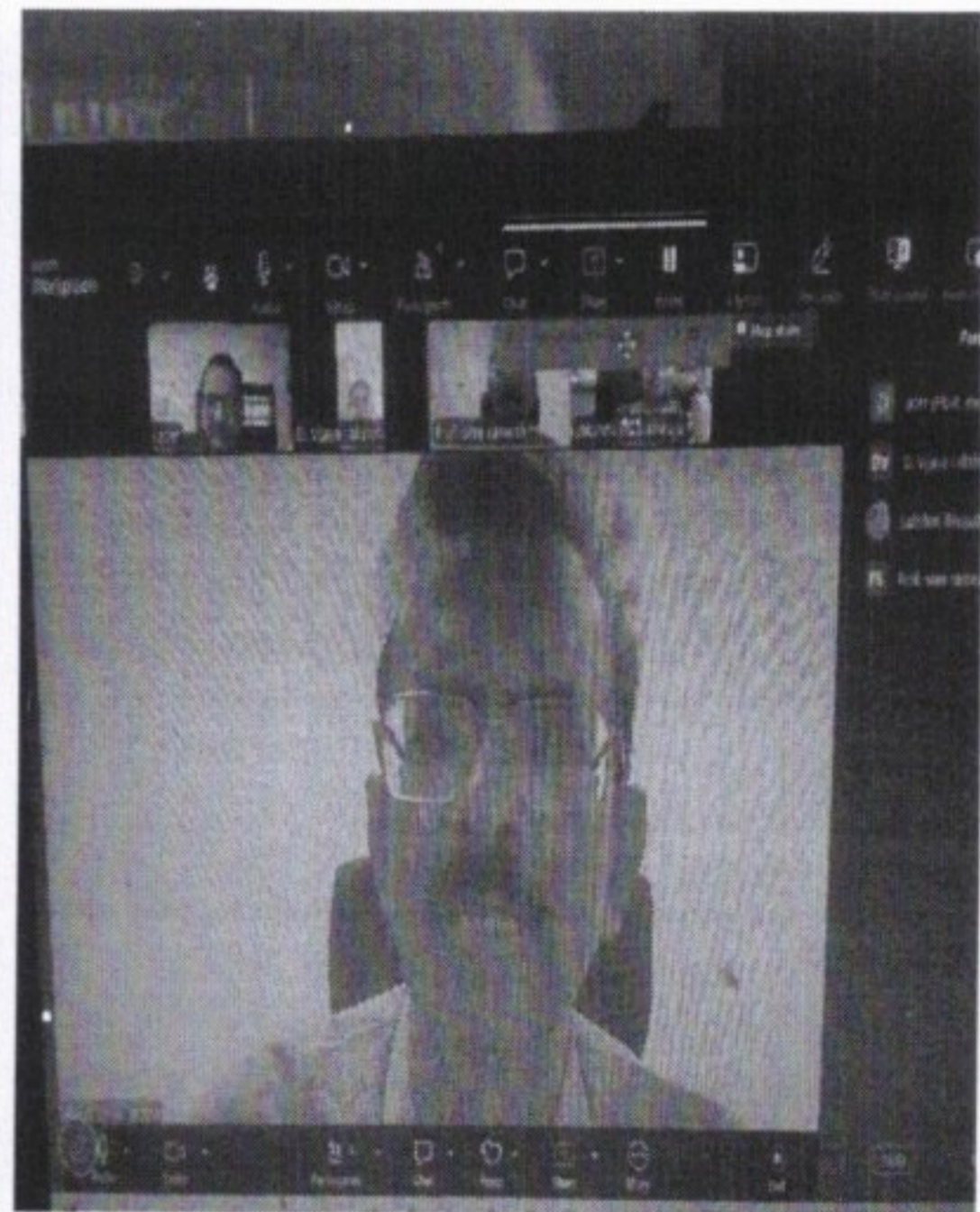
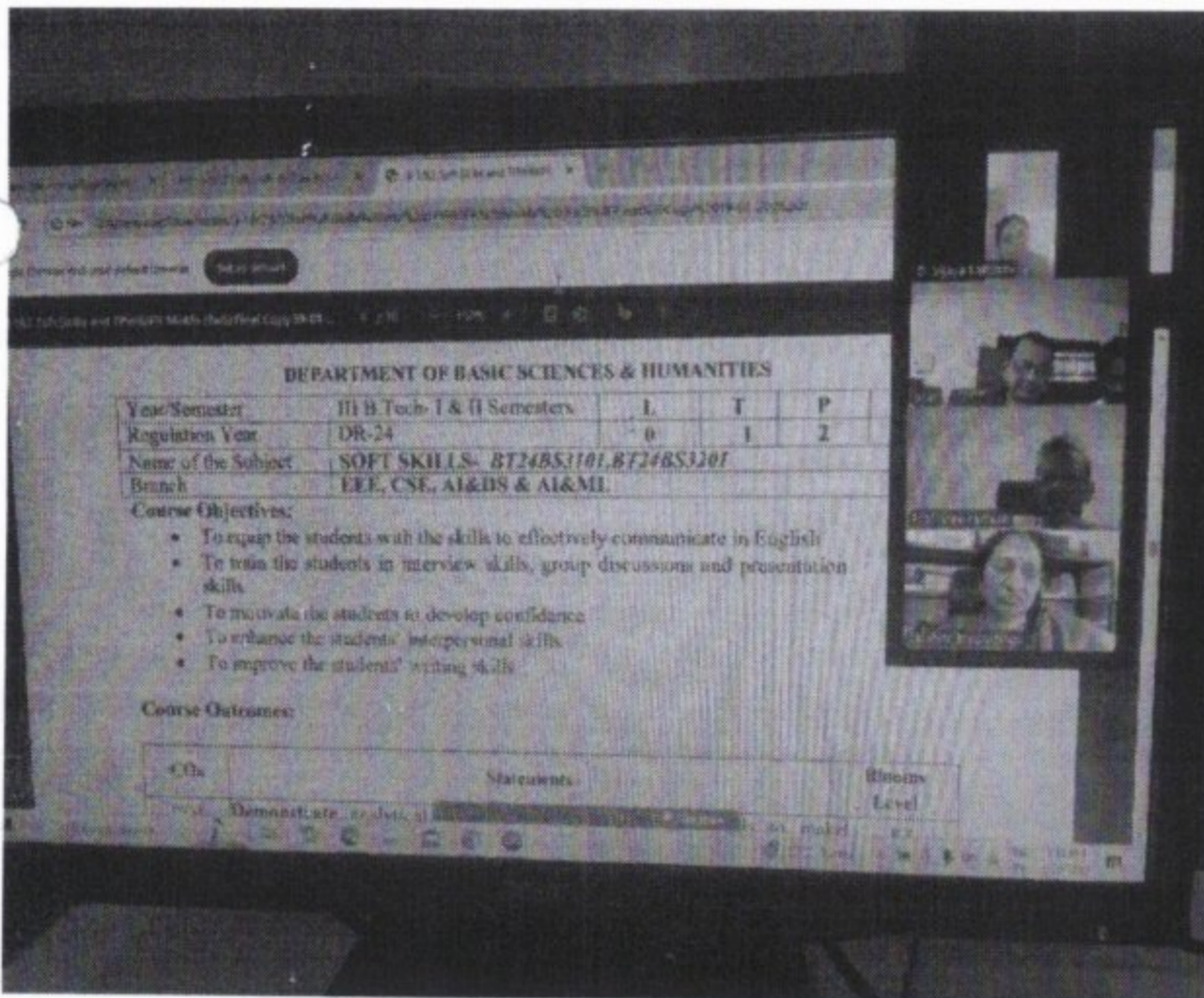


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