

MINUTES FOR THE MEETING OF THE FACULTY OF ENGINEERING & TECHNOLOGY HELD ON 10.01.2024 AT 12.00 NOON IN THE OFFICE OF DIRECTOR, UIET, M.D.UNIVERSITY, ROHTAK

Following were present:

1. Dr. Yudhvir Singh, Prof.
2. Dr. Vineet Kumar, Prof.
3. Dr. Sonia, Prof.
4. Dr. Manvender Singh. Prof.
5. Dr.. Ashwani Kumar Dhingra, Prof.
6. Dr. Prabhakar Kaushik, Prof.
7. Dr. Suresh Kumar, Associate Prof.
8. Dr. Rajesh, Associate Prof.
9. Dr. Manjit Kaur, Associate Prof.
10. Dr. Seema, Associate Prof.
11. Dr. Sandeep Kumar, Assistant. Prof.
12. Dr. Garima Chopra, Assistant Prof.
13. Dr. Amandeep Kaur, Associate Prof.
14. Dr. Ashwani Goyal, Associate Prof.
15. Dr. Sathans, Professor
16. Dr. Sanjeev Kumar, Professor
17. Dr. Vikas Beniwal, Professor

Chairman

Outside Expert

Outside Expert

Outside Expert

1. Confirmed the minutes of the previous meeting of the Faculty of Faculty of Engineering & Technology held on 28.07.2023 (Annexure-I , Pages 1-5, already circulated).
2. Noted the follow up action of the previous meeting of the Faculty of Faculty of Engineering & Technology held on 28.07.2023 (Annexure-II, Page 6, already circulated).
3. Considered the recommendations of the PGBOS in Engineering & Technology made vide Reso. No.2 in its meeting held on 07.12.2023 that the following Diploma Program may be discontinued in UIET from the session 2023-24 as these Diplomas do not fit in the existing NEP framework/ordinance:-
  - i. Diploma in 3-D Printing and Design
  - ii. Diploma in Computer Applications (DCA)

**RESOLVED THAT THE ABOVE MENTIONED DIPLOMA PROGRAMS BE DISCONTINUED IN UIET FROM THE SESSION 2023-24 AND THE SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION AND APPROVAL.**



Considered the recommendations of the PGBOS in Engineering & Technology made vide Reso. Nos. 3 & 4 in its meeting held on 07.12.2023 that the introduction and Scheme of Examination & syllabus of **Certificate Course in 3-D Printing and Design** from the session 2023-24 may be prescribed as per Annexure-III, Pages 7-12

**RESOLVED THAT THE SYLLABUS OF ABOVE MENTIONED CERTIFICATE COURSE BE APPROVED AND THE SCHEME OF EXAMINATION BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION AND APPROVAL.**

**FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL.**

5. Considered the recommendation of the Board of Studies in Engineering & Technology made vide Reso. No 9 on its meeting held on 07.12.2023 that the students of final year of B.Tech. (G-Scheme) in UIET, MDU, Rohtak whose selection is made in reputed Institutes/Companies like CEERI, Pilani, CSIO Chandigarh, IITs, NITs and other Govt. Institutes, Labs Organizations, Departments etc. and who want to take training **without stipend** may also be allowed flexible academic delivery in blended mode.

**Note:**

The Academic Council vide Reso. No. 21 dated 11.07.2022 and Executive Council Vide Reso. No. 70 dated 22.09.2022 has approved/allowed flexible academic delivery in blended mode to those final year students of B. Tech. (G-Scheme) in UIET MDU, Rohtak who are getting offers from registered companies and those who are training in registered companies **with stipends for the session 2021-22** (Annexure-IV, Pages 13-14).

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED FOR THE STUDENTS OF UIET W.E.F. THE SESSION 2023-24 AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**

6. Considered the recommendation of the Board of Studeis in Engineering and Technology made vide Reso. No. 2 in its meeting held on 05.01.2024 that the approval for running BCA in UIET be sought from the AICTE from the session 2024-25.

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED W.E.F. THE SESSION 2023-24 AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**

7. Considered the recommendations of the Board of Studeis in Engineering and Technology made vide Reso. No. 4 in its meeting held on 05.01.2024 that 60 papers of B.Tech. mentioned in the list will be of Sessional Grade (Annexure-V, Pages 15-16).

**RESOLVED THAT THE RECOMMENDATIONS BE APPROVED AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**





Considered the recommendations of the Board of Studies in Engineering and Technology made vide Reso. No. 5 in its meeting held on 05.01.2024 that the Scheme of Examination of B.Tech 2<sup>nd</sup> Year of all branches running in UIET be revised from 2024-25 which has been made due to incorporation of "Universal Human Values-II: Understanding Harmony" course (Annexure-VI, Pages 17-34).

**RESOLVED THAT THE REVISED SCHEME OF EXAMINATIONS AS MENTIONED BE APPROVED AND THE SCHEME OF EXAMINATION BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION AND APPROVAL.**

9. Considered the recommendations of the Board of Studies in Engineering and Technology made vide Reso. No. 7 in its meeting held on 05.01.2024 that the intake strength in M.Tech. (CSE) may be increased from 24 to 30 from the session 2024-25

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED W.E.F. THE SESSION 2024-25 AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**

10. Considered the recommendations of the Board of Studies in Engineering and Technology made vide Reso. No. 7 in its meeting held on 05.01.2024 that M.Tech. Civil Engineering (Transportation Engineering) be introduced in UIET from the Session 2024-25 with an intake of 30.

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED W.E.F. THE SESSION 2024-25 AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**

11. Considered the recommendations of the Board of Studies in Engineering and Technology made vide Reso. No. 8 in its meeting held on 05.01.2024 that one Division (as supernumerary) exclusively for working professionals may be introduced in B.Tech. EE, M E, CE (2<sup>nd</sup> Year/Lateral Entry) and M.Tech. ME, CSE and Power Systems (1<sup>st</sup> Year) from the session 2024-25 in flexible mode as per the provision given in APH 2024-27 of AICTE (2.6.1) (Annexure-VII-, Pages 35-36).

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED W.E.F. THE SESSION 2024-25 AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**

12. Considered the recommendations of the Board of Studies in Engineering and Technology made vide Reso. No. 9 in its meeting held on 05.01.2024 that 5% of seats within the approved intake may be created for NRIs in BCA, B.Tech. CSE, EE, ECE, ME, Biotech., CE, AI&ML and M.Tech. ME, CSE, ECE, Biotech, AIML, Power systems and Civil Engineering (Transportation Engineering) from the Session 2024-25 as per provision given in APH 2024-27 of AICTE(2.8) (Annexure-VIII- Pages 37).

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED W.E.F. THE SESSION 2024-25 AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**



Considered the recommendations of the Board of Studies in Engineering and Technology made vide Reso. No. 10 in its meeting held on 05.01.2024 that 15% (as supernumerary) seats over and above approved intake may be created for Foreign National (FN)/Overseas citizen of India (OCI)/Children of Indian workers in Gulf countries in BCA, B.Tech. CSE, EE, ECE, ME, Biotech., CE, AI&ML from the Session 2024-25 as per provision given in APH 2024-27 of AICTE(2.9)Annexure-IX- Pages 37-38).

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED W.E.F. THE SESSION 2024-25 AND SAME BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR CONSIDERATION.**

- 14 Considered the recommendations of the Board of Studies in Engineering and Technology made vide Reso. No. 11 in its meeting held on 05.01.2024 that the Annual Fee for Ph.D. Program in Engg. and Technology be fixed Rs. 50, 000/- per annum from the Academic Session 2024-25.

**RESOLVED THAT THE ABOVE PROPOSAL BE APPROVED W.E.F. THE SESSION 2024-25**

DEAN, FACULTY OF ENGG. & TECH.

*Elavi*  
22/01/24  
REGISTRAR





**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**  
 (Established under Haryana Act No. XXV of 1975)  
 'A+' Grade University accredited by NAAC

**MINUTES OF THE MEETING OF THE FACULTY OF ENGINEERING & TECHNOLOGY  
 HELD ON 28.07.2023 AT 11:00. A.M IN THE OFFICE OF THE DEAN FACULTY OF  
 ENGINEERING & TECHNOLOGY, M.D. UNIVERSITY, ROHTAK**

The following were present:

- |  |                  |
|--|------------------|
| 1. Prof. Yudhvir Singh, Director & Dean Faculty of Engg. & Tech. | Chairman         |
| 2. Prof. Rahul Rishi   |                  |
| 3. Prof. Vineet Kumar  |                  |
| 4. Prof. Manvender Singh   |                  |
| 5. Prof. Ashwani Kumar Dhingra                                   |                  |
| 6. Prof. Prabhakar Kaushik                                       |                  |
| 7. Dr. Suresh Kumar  |                  |
| 8. Dr. Rajesh Kumar  |                  |
| 9. Dr. Manjeet Kaur  |                  |
| 10. Dr. Seema  |                  |
| 11. Sh. Sandeep Kumar  |                  |
| 12. Dr. Vipin Kumar  |                  |
| 13. Dr. Deepak Kumar   |                  |
| 14. Dr. Garima Chopra  |                  |
| 15. Dr. Amandeep Kaur  |                  |
| 16. Prof. Mukesh Kumar   |                  |
| 17. Dr. Ashwani Goyal  |                  |
| 18. Prof. Vikram Goyal   | Outside Expert   |
| 19. Prof. Gulshan Lal Taneja, Registrar                          | Member Secretary |

1. Confirmed the minutes of the previous meeting of the Faculty of Engineering & Technology held on 13.04.2023 ( Annexure-I, Pages-1-4, already circulated).
2. Noted the follow-up action on previous meeting of the Faculty of Engineering & Technology held on 13.04.2023 (Annexure-II, Page-5, already circulated ).
3. Considered the recommendations of the Board of Studies in Engineering & Technology made vide Reso. 5 of its meeting held on 06.06.2023 to note the action taken by the Vice-Chancellor on the recommendations of the Committee constituted by the Vice-Chancellor to remove anomalies in Ph.D. Degree and to take correctional measures as follows:
  - i. The title of the Ph.D. Degree will not be translated. Only transcription will be done in Hindi/English as the case may be. The PGBOS will provide the transcription of the title in English/Hindi as the case may be and the same to be got printed in the Hindi/English Section of Ph.D. Degree.
  - ii. Concerned department will take utmost care and ensure its implementation. The departments are to make required changes in various forms which are used at departmental level for different purposes while getting the candidate registered for Ph.D./submitting the thesis.

**RESOLVED THAT THE ABOVE MATTER BE APPROVED.**

Considered the recommendations of the Board of Studies in Engineering & Technology made vide Reso. No. 6 of its meeting held on 06.06.2023 that the minor changes in the Scheme of Examinations and syllabus of M. Tech. (Power System) 4<sup>th</sup> semester-CBCS Scheme as per common ordinance of M. Tech. from the session 2023-24 may be prescribed as per Annexure-III, Pages 6-13 (already circulated).

**RESOLVED THAT THE SYLLABUS OF M. TECH. (POWER SYSTEMS) BE APPROVED AND THE SCHEME OF EXAMINATIONS BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.**

**FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL**

5. Considered the recommendations of the Board of Studies in Engineering & Technology made vide Reso. 7 of its meeting held on 06.06.2023 that the minor changes in the Scheme of Examinations and syllabus of the following courses of B. Tech. ECE Program from the session 2023-24 may be prescribed as per Annexure-IV, Pages 14-71 (already circulated).

- i. B. Tech. ECE 4<sup>th</sup> year
- ii. Minor Degree in ECE for students of other branches of Engineering
- iii. B. Tech. (Honors/Specialization in ECE)

**RESOLVED THAT THE SYLLABUS OF B.TECH. ECE 4<sup>th</sup> YEAR BE APPROVED AND THE SCHEME OF EXAMINATIONS BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.**

**FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL**

6. Considered the recommendations of the Board of Studies in Engineering & Technology made vide Reso. No. 9 of its meeting held on 06.06.2023 that a new course "Universal Human Values-II Understand Harmony and Ethical Human Conduct" may be introduced as a mandatory course in the 2<sup>nd</sup> year (4<sup>th</sup> semester) for all Undergraduate students in Engineering from the session 2023-24.

i) Considered the recommendations of Board of Studies in Engineering & Technology made vide Reso. No. 4 of its meeting held on 24.07.2023 that the Syllabus of "Universal Human Values II: Understand Harmony and Ethical Human Conduct" as a mandatory course in the 2<sup>nd</sup> year (4<sup>th</sup> semester) w.e.f. the session 2023-24 (for the students of 2023-24 batches) may be prescribed as per Annexure -VI Pages 72-75 (To be circulated).

**RESOLVED THAT THE INTRODUCTION OF "UNIVERSAL HUMAN VALUES-II: UNDERSTAND HARMONY AND ETHICAL HUMAN CONDUCT" IN B.TECH. 2<sup>nd</sup> YEAR W.E.F THE SESSION 2023-24 BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.**

**RESOLVED THAT THE SCHEME OF EXAMINATION OF THE ABOVE COURSE BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.**

**FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL**



3 -  
Considered the recommendations of Board of Studies in Engineering & Technology made vide Reso. No. 1 of its meeting held on 24.07.2023 that the following M.Tech. Programs (already existing) may be run in flexible mode in UIET from the Academic Session 2023-24:-

- i) M.Tech. (Biotechnology)
- ii) M.Tech. (Computer Science & Engineering)
- iii) M.Tech. CSE (Artificial Intelligence & Machine Learning)
- iv) M.Tech. (Electronics and Communication Engineering)
- v) M.Tech. (Manufacturing & Automation)
- vi) M.Tech. (Mechanical Engineering)
- vii) M.Tech. (Structural Engineering)
- viii) M.Tech. (Power Systems)

**RESOLVED THAT THE MATTER WITH REGARD TO INTRODUCTION OF THE ABOVE M.TECH. PROGRAMS (ALREADY EXISTING) IN FLEXIBLE MODE IN UIET FROM THE SESSION 2023-24 WITH PROVISION OF MAXIMUM 40% OF CREDIT TRANSFER THROUGH MOOCS-SWAYAM/LMSS PLATFORMS BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.**


Considered the recommendations of Board of Studies in Engineering & Technology made vide Reso. No. 2 of its meeting held on 24.07.2023 that the Schemes of Examinations and Syllabi of the Minor Degrees in the following B.Tech. Programs w.e.f the session 2023-24 as per Model Curriculum of AICTE (already circulated) may be prescribed as per **Annexure- VI Pages 76-314 (To be circulated):-**

- i) B.Tech. Minor in (Biotechnology)
- ii) B.Tech. Minor in (Computer Science & Engineering) (for ECE Branch)
- iii) B.Tech. Minor in (Computer Science & Engineering) (For all Branches except ECE)
- iv) B.Tech. Minor in (Electronics and Communication Engineering)
- v) B.Tech. Minor in (Electrical Engineering)
- vi) B.Tech. Minor in (Civil Engineering)
- vii) B.Tech. Minor in (Mechanical Engineering)
- viii) B.Tech. Minor in (Artificial Intelligence and Machine Learning)
- ix) B.Tech. Minor in (Cyber Security)
- x) B.Tech. Minor in (Data Science)
- xi) B.Tech. Minor in (Internet of Things)
- xii) B.Tech. Minor in (Transportation Engineering)
- xiii) B.Tech. Minor in (Smart Manufacturing)
- xiv) B.Tech. Minor in (Electrical Vehicle)

**RESOLVED THAT THE SYLLABI OF THE ABOVE MINOR DEGREES IN B.TECH. PROGRAM TO BE OFFERED BY UIET BE APPROVED AND THE SCHEME OF EXAMINATIONS BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.**

**FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR, IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL.**

9. Considered the recommendations of Board of Studies in Engineering & Technology made vide Reso. No. 3 of its meeting held on 24.07.2023 that the Schemes of Examinations, Syllabi and List of Elective subjects of M. Tech. Civil Engineering-Transportation Engineering Program may be revised w.e.f. the session 2023-24 as per **Annexure-VII Pages 315-331 (To be circulated).**



RESOLVED THAT THE SYLLABI OF ELECTIVE SUBJECTS OF M. TECH. CIVIL ENGINEERING (TRANSPORTATION ENGINEERING) PROGRAM BE APPROVED AND THE SCHEME OF EXAMINATIONS BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.

FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL.

10. Considered the recommendations of PG Board of Studies in Engineering & Technology made vide Reso. No. 5 of its meeting held on 24.07.2023 that the G Scheme of the following B.Tech (2<sup>nd</sup> year) Programs w.e.f the session 2023-24 may be prescribed as per Annexure-VIII Pages-332-376 (To be circulated) :

- i. B.Tech CSE (Artificial Intelligence and Machine Learning)
- ii. B.Tech. (Artificial Intelligence and Machine Learning)
- iii. B.Tech. CSE (Artificial Intelligence)
- iv. B.Tech (Artificial Intelligence)-G Scheme

RESOLVED THAT THE SYLLABUS OF THE ABOVE PROGRAMS BE APPROVED AND THE SCHEME OF EXAMINATION OF THE ABOVE PROGRAMS BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.

FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL.

11. Considered the recommendations of PG Board of Studies in Engineering & Technology made vide Reso. No. 6 of its meeting held on 24.07.2023 that Syllabi and Scheme of Examinations of the following B.Tech./ M.Tech Programs may be common with the Programs from the session 2023-24 as mentioned below:-

Name of the B.Tech. Program	Common with
B.Tech. (Artificial Intelligence) 1 <sup>st</sup> year	B.Tech (CSE) 1 <sup>st</sup> year
B.Tech. (5G) 1 <sup>st</sup> year	B.Tech (ECE) 1 <sup>st</sup> year
B.Tech. (EV Technology) 1 <sup>st</sup> year	B.Tech (Mechanical Engineering) 1 <sup>st</sup> year
B.Tech (Chemical Engineering) 1 <sup>st</sup> year	B.Tech (Textile Chemistry) 1 <sup>st</sup> year
M.Tech (Artificial Intelligence & Machine Learning) 1 <sup>st</sup> & 2 <sup>nd</sup> year	M.Tech, CSE (Artificial Intelligence & Machine Learning) 1 <sup>st</sup> & 2 <sup>nd</sup> year

RESOLVED THAT THE ABOVE MATTER BE RECOMMENDED TO ACADEMIC COUNCIL FOR APPROVAL.

FURTHER THE COURSE CODES MAY BE GOT VETTED FROM THE DIRECTOR IQAC BEFORE SENDING THE ITEM TO THE ACADEMIC COUNCIL.

12. Considered the recommendations of PG Board of Studies in Engineering & Technology made vide Reso. No. 7 of its meeting held on 24.07.2023 that Eligibility criteria for admission to Ph.D Program in Engineering & Technology from the session 2023-24 may be prescribed as per the eligibility criteria already mentioned in Ph.D Ordinance 2021 (Annexure-IX Page-376).

RESOLVED THAT THE ELIGIBILITY CRITERIA FOR ADMISSION TO Ph.D PROGRAM FROM THE SESSION 2023-24 BE PRESCRIBED AS UNDER AND THE MATTER BE REFERRED TO THE ACADEMIC COUNCIL FOR APPROVAL:

A candidate seeking admission to the Ph.D. Program must satisfy the following relevant academic criteria:





Master's degree with at least 55% marks in aggregate or its equivalent B grade in UGC seven-  
and scale in the subject concerned or in an allied subject.

Note: The eligibility will be 50% marks at Masters' level or an equivalent grade for  
ST/Differently Abled candidates of the Haryana State only.

- 13. Considered the recommendations of PG Board of Studies in Engineering & Technology made vide Reso. No. 7 of its meeting held on 24.07.2023 that the Scheme of Examinations and Syllabi of B.Tech. EEE (8<sup>th</sup> Semester) may be implemented from the session 2022-23 instead of 2023-24.

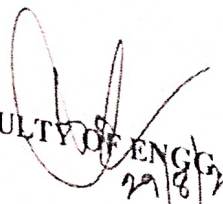
**Note:**


The Syllabus and the SOE of B.Tech. EEE (8<sup>th</sup> semester) from the session 2023-24 has already been approved by the Board of Studies in its meeting held on 14.02.2023 and Faculty of Engineering & Technology in its meeting held on 13.04.2023. On a later stage the Registrar, B.M. Group of Institutions, Farukh Nagar (Gurugram) and Director, Mewat Engineering College Nuh have requested that the said SOE and Syllabus may be implemented from the session 2022-23 instead of 2023-24 as some students have already appeared in the examination of paper namely "Energy Management and Auditing; Paper code OEC-EE0414G of B.Tech. EEE (8<sup>th</sup> semester) in the session 2022-23. The faculty considered that there is no need to implement the whole scheme and syllabus to be implemented from the session 2022-23. Only paper "Energy Management and Auditing; Paper code OEC-EE0414G of B.Tech. EEE (8<sup>th</sup> semester) may be implemented from 2022-23.

**RESOLVED THAT ONLY COURSE NAMEDLY "ENERGY MANAGEMENT AND AUDITING (COURSE CODE OEC-EE-414G) OF B.TECH. EEE (8<sup>th</sup> SEMESTER) BE IMPLEMENTED FROM THE SESSION 2022-23 INSTEAD OF 2023-24 AND THE SAME MAY BE RECOMMENDED TO THE ACADEMIC COUNCIL FOR APPROVAL.**

- 14. Considered the request dated 12.06.2023 received from the Director, TITS, Bhiwani regarding qualifications for certain under-graduate courses (Annexure-X Page-377)

**THE COMMITTEE CONSIDERED THE REQUEST AND RESOLVED THAT THE QUALIFICATIONS FOR ADMISSIONS TO VARIOUS B.TECH. PROGRAMS MAY BE ADOPTED AS PRESCRIBED BY THE HSTES FOR THE SESSION 2023-24 IN COHERENCE WITH QUALIFICATIONS PRESCRIBED BY AICTE FOR SESSION 2023-24 IN APPROVED PROCESS HANDBOOK.**

  
DEAN, FACULTY OF ENGG & TECH.  
29/8/23

  
19/08/23  
REGISTRAR

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES IN ENGINEERING AND TECHNOLOGY HELD ON 05.01.2024 AT 11.00 A.M. IN THE OFFICE OF THE DIRECTOR UIET.**

The meeting of the Board of Studies in Engineering and Technology was held on 05.01.2024 at 11.00 A.M. in the office of the Director UIET.

Following were present:-

1. Prof. Yudhvir Singh, Director UIET	Chairman
2. Prof Vineet Kumar	Member
3. Prof Sonia	Member
4. Prof. Manvender Singh	Member
5. Prof. Ashwani Kumar Dhingra	Member
6. Prof. Prabhakar Kaushik	Member
7. Dr. Chhavi Rana	Member
8. Dr. Sunita Dhingra	Member
9. Dr. Veer Bhan	Member
10. Dr. Rajesh Kumar	Member
11. Dr. Rakesh	Member
12. Er. Vineet Dhawan	Member

**THE MINUTES OF THE MEEING ARE AS UNDER:-**

1. The Panel of Examiners to evaluate Ph.D. thesis of Mr. Rajesh Kumar (EE) was recommended by the BOS vide Resolution No.1 in its meeting held on 06.06.2023. The validity of the panel has expired. Hence it was considered by the BOS in its meeting held on 05.01.2024 and REVALIDATED the already approved panel.
2. **RECOMMENDED THAT** the approval for running BCA in UIET be sought from the AICTE from the session 2024-25.
3. Considered the recommendations of the DRC and **RECOMMENDED** the Ph.D. Registration of Viniti Rani, Priya, Bhawna, Shagun, Aarti in Chemistry and Deeksha and Sumit in Mathematics under applied Science in UIET as per "Annexure – A".
4. Considered the observation of UCC and it was **recommended that** 60 papers of B.Tech. mentioned in the list placed at "Annexure – B" will be of Sessional Grade.
5. Considered the SOE of B.Tech. 2<sup>nd</sup> Year of all branches running in UIET and **RECOMMENDED** the revised SOE by incorporating "Universal Human Values-II: Understanding Harmony" (Annexure- C).
6. It was **RESOLVED and RECOMMENDED THAT** intake strength in M.Tech. (CSE) may be increased from 24 to 30 from the session 2024-25.
7. Considered and **RECOMMENDED THAT** M.Tech. Civil Engineering (Transportation Engineering) be introduced in UIET from the Session 2024-25. *with in take of 30.*
8. **RECOMMENDED** that one Division (as supernumerary) exclusively for working professionals may be introduced in B.Tech. EE, M E, CE (2<sup>nd</sup> Year/Lateral Entry) and M.Tech. ME, CSE and Power Systems (1<sup>st</sup> Year) from the session 2024-25 in flexible mode as per the provision given in APH 2024-27 of AICTE (2.6.I). "Annexure – D"





9. **RECOMMENDED THAT** 5% of seats within the approved intake may be created for NRIs in BCA, B.Tech. CSE, EE, ECE, ME, Biotech., CE, AI&ML and M.Tech. ME, CSE, ECE, Biotech, AIML, Power systems and Civil Engineering (Transportation Engineering) from the Session 2024-25 as per provision given in APH 2024-27 of AICTE(2.8). "Annexure - E"
10. **RECOMMENDED THAT** 15% (as supernumerary) seats over and above approved intake may be created for Foreign National (FN)/Overseas citizen of India (OCI)/Children of Indian workers in Gulf countries in BCA, B.Tech. CSE, EE, ECE, ME, Biotech., CE, AI&ML from the Session 2024-25 as per provision given in APH 2024-27 of AICTE(2.9). "Annexure - E"
11. It was **RECOMMENDED THAT** the Annual Fee for Ph.D. Program in Engg. and Technology be fixed Rs. 50, 000/- per annum from the Academic Session 2024-25.

  
Chairman  
BOS in Engg. Tech.

**FOLLOW-UP ACTION REPORT ON FACULTY OF ENGINEERING & TECHNOOGY  
RESOLUTIONS DATED 28.07.2023 ARE AS UNDER,**

<b>Reso. No.</b>	<b>Brief Particular</b>	<b>What action has been taken on the resolution</b>
1	Minutes of meeting of previous meeting of the Faculty of Engineering & Technology held on 13.04.2023	Minutes were confirmed
2	Report on Follow-up action on the meeting of the Faculty of Engineering & Technology held on 13.04.2023	The committee noted the follow up action.
3	Regarding to remove anomalies in Ph.D. Degree	The Decision of the Faculty was circulated to all the concerned.
4 & 5	Minor changes in the Scheme of Examinations of various B.Tech./ M. Tech. Programs w.e.f. the session 2023-24	The SOEs and syllabi have been approved by the Academic Council and also got uploaded on the University Website.
6. (I & II)	Introduction and SOE & Syllabus of 'Universal Human Values II: Understand Harmony and Ethical Human Conduct'	The Decision of the Academic Council/Executive Council have been circulated to all the concerned and the SOE & Syllabus have been got uploaded on the University website.
7	Introduction of M. Tech. Programs (already existing) in flexible mode in UIET from the session 2023-24	The decision of the Academic Council/Executive Council have been circulated to all the concerned.
8, 9, 10, 11 & 13	Scheme of Examinations and Syllabi of various B.Tech./M.Tech. Programs from the session 2023-24	The Decision of the Academic Council has been circulated to all the concerned and the SOE & Syllabus have been got uploaded on the University website
12.	Eligibility criteria for admission to Ph.D. Program from the session 2023-24	The decision of the Academic Council has been circulated to all the concerned.
14	Qualification for admission to various B.Tech. Program from the session 2023-24 (request from Director, TITS Bhiwani)	The decision of the Academic Council/Executive Council have been circulated to all the concerned.



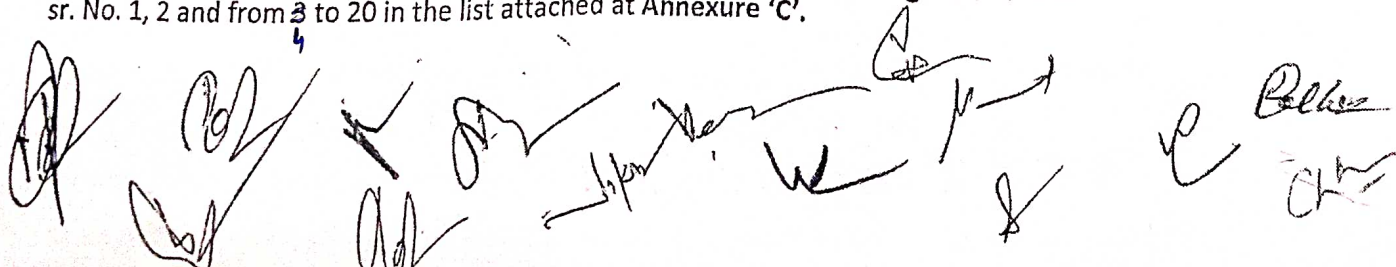
MINUTES OF THE MEETING OF BOARD OF STUDIES IN ENGG. & TECH. HELD ON 07.12.2023 AT 10.00 A.M IN THE OFFICE OF THE DIRECTOR, UIET, MDU, ROHTAK

A meeting of the Board of Studies in Engineering & Technology was held on 07.12.2023 at 10.00 A.M. in the office of the Director UIET. Following were present:-

1. Prof. Yudhvir Singh	:	Chairman
2. Prof. Rahul Rishi	:	Member
3. Prof. Vineet Kumar	:	Member
4. Prof. Sonia	:	Member
5. Prof. Manvender Singh	:	Member
6. Prof. Prabhakar Kaushik	:	Member
7. Dr. Vikas Sindhu	:	Member
8. Dr. Rajesh	:	Member
9. Dr. Veer Bhan	:	Member
10. Mr. Rakesh	:	Member
11. Sh. Vineet Kumar	:	Member
12. Dr. Vipin Kumar	:	Member
13. Dr. Vikas Nandal	:	Member
14. Dr. Chhavi Rana	:	Member

MINUTES OF THE MEETING ARE AS FOLLOWS:-

1. Considered and approved the panel of examiners to evaluate Ph.D. theses of Mr.Himanshu Giroh and Shalini Yadav.
2. Diploma in 3-D Printing and Design and Diploma in Computer Applications (DCA) were running in UIET for the last two years. The BOS reconsidered these and observed that these diplomas does not fit in the existing National Education Policy framework and policy/Ordinance for Diplomas/certificate of University and **RECOMMENDED THAT** these diplomas may be **DISCONTINUED** from the session 2023-24.
3. Considered and **RESOLVED TO RECOMMEND** the introduction of Certificate Course in 3D Printing and Design in UIET from the session 2023-24. This certificate course will be of one semester and will be floated in both odd and even semesters.
4. Considered and **RECOMMENDED** the Scheme of Examination and Syllabus of one semester Certificate Course in 3D Printing and Design effective from the session 2023-24. (Annexure 'A')
5. Considered the withdrawal of Dr. Sachin Dass as Co-supervisor of Mr. Himanshu is a registered Ph.D. student (Regn No.1171680176) 12.03.2021. Dr. Deepak Kumar, Assistant Professor (CE) in UIET and Dr. Sachin Das, Department of Civil Engineering DCRUST Murthal were appointed as supervisor and Co-Supervisor respectively. But Dr. Sachin Dass expressed his inability to supervise the research scholar due to his busy schedule with Departmental activities **BOS RESOLVED to withdraw Dr. Sachin Dass as Co-supervisor and Dr. Deepka Kumar will supervise the whole research work of the student.**
6. Considered the recommendations made by DRC of UIET in its meeting held on 25.11.2023 placed at annexure 'B' and recommended the registration for Ph. D. Degree of the candidates at sr. No. 1, 2 and from 3 to 20 in the list attached at Annexure 'C'.



7. DRC in its meeting held on 25.11.2023 recommended the Ph.D. Regn. Of Rishi Raj (Sr. No.3 in placed at annexure "c"). A complaint regarding eligibility for Ph.D. Registration of Rishi Raj has been received and the same was considered by the BOS. The members of the BoS observed that clarifications on some points of complaint are required from Academic Branch. The Board of Studies **RESOLVED THAT** The Director UIET will seek these clarifications and after that his case will be placed before BOS. If the meeting of BOS is not scheduled in near future, his case will be considered by the members of BoS through circulation as the case is already delayed and candidate is suffering from a long time.

8. Considered the requests of the following Ph.D. students for appointment of Co-Supervisor:-

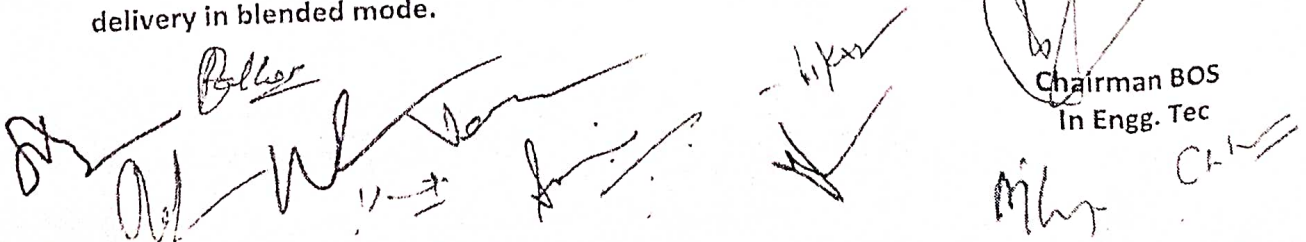
i) Mr. Nitin Newaliya is a registered student for Ph.D. Degree under Registration No. 2018381585 w.e.f. 16.12.2021 under the supervision of Prof. Yudhvir Singh. His topic of research is "Enhanced Model for Data Exploration and Analytics in Maritime Movement Information". The DRC in its meeting held on 25.11.2023 considered the request of the student and recommended that Dr. Vikas Swich, Associate Professor (CSE) in UIET may be appointed as Co-supervisor being his research are multidisciplinary in nature, requiring additional readings, understanding and guidance in domain beyond the core topic and needs of a co-supervisor to take care of the analysis in research development.

The Board of Studies in Engg. & Tech. accepted the recommendations of the DRC and recommended that Dr. Vikas Siwach, Associate Professor in CSE may be appointed as Co-Supervisor of the student.,

ii) Mr. Lalit is a registered student for Ph.D. Degree under Registration No. 06-RUR-2668 w.e.f.20.06.2022 under the supervision of Prof. Prabahakar Kaushik (ME). His topic of research is "Mechanical and Tribological characterization of Friction of Friction, stir Welded Aluminium Alloy". The DRC in its meeting held on 25.11.2023 considered the request of the student and observed that his research are multidisciplinary in nature, requiring additional readings, understanding and guidance in domain beyond the core topic and needs of a co-Supervisor. Dr. Rajesh, Associate Professor (ME) in UIET has expertisation in the field of manufacturing which is directly related to the research topic and recommended that Dr. Rajesh may be appointed as a co-supervisor the student.

The Board of Studies in Engg. & Tech. accepted the recommendations of the DRC and recommended that Dr. Rajesh, Associate Professor in ME may be appointed as Co-Supervisor of the student.

9 Revisited the Resolution No. 70 dated 22.09.2022 of Executive Council (Annexure "D") vide which the B.Tech. Students of Final year (G Scheme) have been offered flexible academic delivery in blended mode during training in registered companies with stipends. Till then, no student could receive offer from reputed bodies like CEERI, Pilani, CSIO Chandigarh, IITs, NITs, and other Govt. Institutes, Labs, Organizations, Departments etc. It is the result of continuous efforts of faculty for improving the quality of education; the selections of students of UIET have started in the institutes of repute as mentioned above. However, no stipend is paid by theses institutes. In spite of that, the students are preferring training in these institutes to develop their skills. The selection of students in these institutes is also a matter of pride for the University. Board of Studies in Engineering and Technology **RESOLVED THAT** the students of UIET, MDU Rohtak whose selection is made in such institutes and want to take training without stipend may also be allowed flexible academic delivery in blended mode.

  
Chairman BOS  
In Engg. Tec  
CH-12



Due to a typographical error, Reso. No 06 of the minutes of Board of Studies in Engineering & Technology meeting dated **07.12.2023** be read as **"S. No 1, 2 and from 4 to 20"** and the same has been corrected accordingly in the minutes.



Chairman,  
BoS (E&T)

~~Annexure III~~

MAHARSHI DAYANAND UNIVERSITY ROHTAK  
UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY

No. UIET/2023/ 8685  
Dated : 12.12.2023

The Assistant Registrar (Acad.),  
M.D. University,  
Rohtak

Subject:- **SOE and Syllabus of Certificate Course in 3 D Printing and Design**

Sir/Madam


The Board of Studies in Engineering and Technology vide Resolution No. 3 in its meeting held on 07.12.2023 recommended the introduction of Certificate Course in 3 D Printing and Design in UIET from the Academic Session 2023-24. This certificate course will be of one semester and will be floated in both odd and even semesters. Kindly the introduction of Certificate course may please be placed appropriate authority/body for approval.

Vide Resolution 4, the Board of Studies recommended the Scheme and Syllabus of this course and attached herewith for approval of the Academic Council.

Encl.

1. Copy of minutes of BOS
2. SOE and syllabus recommended  
By BOS

yours faithfully,

  
Director (UIET) and Chairman  
Board of Studies in Engg. & Tech.

etc





**M.D. UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES AND EXAMINATION**  
**Certificate Course in 3D Printing and Design**

**Scheme and Syllabus**

Course Code	Course Name	No. of Credits	Hours/week (L+T+P)	Internal Assess.	Theory	Practical	Max. marks	Duration of Exam
23UMEEEC01	3D Printing & Design	3	(2+0+1)	15	35	25(5+20)	75	3 Hrs

Program Name	Certificate Course in 3D Printing and Design		
Course Name	3D Printing and Design	Course Code	23UMEEEC01
Credits	3	No. of hours/Week(L+T+P)	(2+0+1)
Duration of End term examination	03 hrs	Max. marks	Th: 40 IA: 10 Practical:25 IA:05 EA:20

**Note:** Examiner will set nine questions in total. Question one will have 4 parts of 2 marks each from all units and remaining eight questions of 8 marks each to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each unit.

**Course Objectives:**

- The objective of this '3D printing and design' course is to introduce students to additive manufacturing, a fast developing and widely utilised fabrication technology.
- It is aimed to make the students aware of the technology for conceptual modelling, prototyping and rapid manufacturing. It is also aimed to introduce reverse engineering (RE).
- Its goal is to provide in-depth understanding of the many uses and benefits of additive manufacturing (AM) in industry and society, with a focus on major applications including rapid tooling, manufacturing, and healthcare.

**Course Outcomes:**

The course imparts training in core additive manufacturing technology i.e. Fused deposition modeling (FDM) which is commonly used for modeling, prototyping, and production applications. The course equips to use digital tools and techniques necessary for exploring 3D designs and 3D printing.

Upon the completion of this course

- Students will be able to understand about various additive manufacturing techniques
- Students will be able to know detail steps to perform FDM 3D Printing and its process parameters, 3D scanning and CAD modelling.
- Students will be able to know the wide applications of Additive Manufacturing (AM) in industry and society.

### UNIT 1: INTRODUCTION

Introduction to layered manufacturing, Importance of Additive Manufacturing, Additive Manufacturing in Product Development, Classification of additive manufacturing processes, Common additive manufacturing technologies; Vat photopolymerisation, Material Extrusion, Material Jetting, Binder Jetting, Powder bed fusion, Direct energy deposition and Sheet lamination., Selective Laser Sintering, Direct Metal Selective laser Sintering

### UNIT 2:3D PRINTING, SCANNING &CAD MODELLING:

3D Scanning and digitization, data handling &reduction Methods, AM Software: data formats and standardization, Slicing software, Process-path generation ,Part Orientation and support generation.

### UNIT 3: FDM PRINTING

Principle of FDM/FFF printing, Basic steps to perform FDM printing, Significant process parameters of FDM printing, layer height, raster angle, raster width, build temperature, Nozzle temperature, orientation, printing speed etc

Types of FDM printer: Cartesian, Polar, delta, Robotic (SCARA), continuous, dual extruder, independent dual extruder

FDM Materials: PLA, ABS, PETG, Nylon, PVA, PC, TPU, Carbon reinforced nylon, ceramics, metals, Dual and multi material etc

### UNIT 4:APPLICATIONS FOR ADDITIVE MANUFACTURING

The Use of AM to Support Medical Applications 1. Surgical and Diagnostic Aids 2. Prosthetics Development 3. Manufacturing 4. Tissue Engineering and Organ Printing; Automotive Industries, Aerospace Industries Architectural Engineering

**Students have to perform the following activities in lab (3D Printing and Design Practicals):**  
**Practical:25**

**IA(Internal Assessment):05**

**EA(External Assessment):20**

1. Make a cube of any dimension using FDM 3D Printer.
2. Slicing Software basics-I. Setting up the build temperature, nozzle temperature, speed, material, layer height
3. Slicing Software basics-II Setting up infill density, infill pattern, orientation of object, support material wall thickness, converting .stl file to .G-code file etc.
4. Download a .stl file of simple object from internet, convert into G-code and print with FDM 3D Printer at 30% infill density.
5. Download a .stl file of simple object which require support material from internet, convert into G-code and print with FDM 3D Printer.
6. Design the Key ring of your own name in a CAD software and print it using FDM printer.
7. Print a cube using SLA/DLP printer
8. Emboss / engrave your name on a 3D object and print it with ABS material.
9. Reverse engineering- Scan your own face by 3D Scanner and then 3D print it.

### Reference Books

1. Ian Gibson, Ian Gibson. "Additive manufacturing technologies 3D printing, rapid prototyping, and direct digital manufacturing." Springer International Publishing, 2010
2. Harshit K. Dave, J. Paulo Davim Fused Deposition Modeling Based 3D Printing, Springer International Publishing, 2021.
3. Manu Srivastava, Sandeep Rathee, Sachin Maheshwari, TK Kundra Additive Manufacturing Fundamentals and Advancements CRC press, 2019/
4. Chua, C.K., Leong K.F. and Lim C.S., "Rapid prototyping: Principles and applications", second edition, World Scientific Publishers, 2010.
5. Kamrani, A.K. and Nasr, E.A., "Rapid Prototyping: Theory and practice", Springer, 2006.



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IV

Extract of A.C Minutes Dated 11.07.2022

31

20. Representation of various Students Organizations for Relaxation in Examination Pattern during the Examinations scheduled from 2<sup>nd</sup> July, 2022 and to Treat the Scheme of Examinations (contained in the Ordinances of respective Programs) modified to the extent

Considered:

- (i) the action taken by the Vice-Chancellor U/s 9-A(5) of MDU Act in approving the Proceedings of the meeting of the Committee, constituted by him under the Convenership of Prof. A.S.Maan, Dean College Development Council, Considered the representation of various Students Organizations for relaxation in examination pattern during the examinations scheduled from 2<sup>nd</sup> July, 2022, held on 22.06.2022 (Annexure A/31 pages 123-124, already circulated);
- (ii) to treat the Scheme of Examinations (contained in the Ordinances of respective Programs) modified to the extent of recommendations of the above said Committee, for the semester/annual examinations to be held during July 2022 Session.

RESOLVED THAT THE ACTION TAKEN BY THE VICE-CHANCELLOR AS ABOVE BE APPROVED AND RECOMMENDED TO THE EXECUTIVE COUNCIL FOR CONSIDERATION AND APPROVAL.

[ACTION BY OSD (CONDUCT)]

21. Recommendations of the Committee regarding Offering of Flexible Academic Delivery in Blended Mode to those Final Year Students of B.Tech (G-Scheme) in UIET who are Getting Offers from Registered Companies

Considered the recommendations of the Committee of the Co-ordinators of various Branches of the University Institute of Engineering & Technology made in its meeting held on 03.03.2022 regarding offering of flexible academic delivery in blended mode to those final year students of B.Tech (G-Scheme) in UIET who are getting offers from registered companies and for those who are training in registered companies with stipends for the Current Session 2021-22 (Annexure A/34 page 127, already circulated).

RESOLVED THAT THE RECOMMENDATIONS OF THE COMMITTEE AS ABOVE BE APPROVED.

[ACTION BY A.R.(ACADEMIC)]

D. J.

The Executive Council considered the above recommendations of the Academic Council, and

**RESOLVED THAT THE RECOMMENDATIONS OF THE ACADEMIC COUNCIL AS ABOVE BE APPROVED.**

[ACTION BY OSD (ACAD.)]

E.C. Resolution dt. 22.09.2022

✓ 70. Consideration of the recommendations of the Committee regarding Offering of Flexible Academic Delivery in Blended Mode to those Final Year Students of B.Tech (G-Scheme) in UIET who are Getting Offers from Registered Companies

A meeting of the Co-ordinators of various Branches of the Institute of Engineering and Technology under the Chairmanship of Director, UIET was held on 3.3.2022 for the matter regarding hardship being faced by the B.Tech (G-Scheme) final year students who are getting offers from registered companies and for those students who are training in registered companies with stipends may be offered flexible academic delivery in blended mode. The Committee made its recommendations as per Annexure A/122 page 410, already circulated.

The Minutes of the meeting held on 3.3.2022 were placed before the Vice-Chancellor who has passed orders to refer the matter to the Academic Council for consideration.

The recommendations of the Committee of the Co-ordinators of various Branches of the University Institute of Engineering & Technology made in its meeting held on 03.03.2022 regarding offering of flexible academic delivery in blended mode to those final year students of B.Tech (G-Scheme) in UIET who are getting offers from registered companies and for those who are training in registered companies with stipends for the Current Session 2021-22 (Annexure A/122 page 410, already circulated) were placed before the Academic Council for consideration.

The Academic Council, vide Reso. No. 21 in its meeting held on 11.07.2022, has considered the above recommendations of the Committee and resolved as under:

**RESOLVED THAT THE RECOMMENDATIONS OF THE COMMITTEE AS ABOVE BE APPROVED.**

✓ The Executive Council considered the above recommendations of the Academic Council, and

**RESOLVED THAT THE RECOMMENDATIONS OF THE ACADEMIC COUNCIL AS ABOVE BE APPROVED.**

[ACTION BY OSD (ACAD.)]



Sr. No.	Course Name & Code	Subject Code	Subject Name	Semester
1	B.Tech (CSE- Data Science)-2021	MC-320G*	Entrepreneurship Management	8
2	B.Tech (CSE- Data Science)-2021	PT-CSE-425G	Practical Training -II	7
3	B.Tech (CSE- Data Science)-2021	MC-318G*	Essence of Indian Traditional Knowledge	6
4	B.Tech (CSE- Data Science)-2021	PT-CSE-329G	Practical Training -I	5
5	B.Tech (CSE- Data Science)-2021	MC-317G*	Constitution of India	5
6	B.TECH (COMPUTER SCIENCE AND TECHNOLOGY)-201920	PT-CSE-425G	Practical Training-II	7
7	B.TECH (CSE-INTERNET OF THINGS & CYBER SECURITY ENGINEERING)-398	MC-317G	Constitution of India	6
8	B.TECH (CSE-INTERNET OF THINGS & CYBER SECURITY ENGINEERING)-398	PT-CSE-329G	Practical Training- 1	5
9	B.TECH (CSE-ARTIFI. INTELLIGEN. & MACHINE LEARNING ENGINEERING)-383	MC-317G	Constitution of India	6
10	B.TECH (CSE-ARTIFI. INTELLIGEN. & MACHINE LEARNING ENGINEERING)-383	PT-CSE-329G	Practical Training -I	5
11	B.TECH - ROBOTICS & ARTIFICIAL INTELLIGENCE-365	PT-CSE-329G	Practical Training I	5
12	B.TECH. (ROBOTICS AND AUTOMATION ENGINEERING) -399	PT-RA-319G	Practical Training-I	5
13	B.TECH -ARTIFICIAL INTELLIGENCE & DATA SCIENCE-363	PT-CSE-329G	Practical Training I	5
14	B.TECH (CIVIL ENGINEERING)-306	MC-317G	Constitution of India	8
15	B.TECH (ELECTRONICS & COMMUNICATION ENGINEERING)-301	MC-317-G	Constitution of India	7
16	B.TECH (MECHANICAL ENGINEERING)-304	MC-317G	Constitution of India	7
17	B.TECH (MECHANICAL ENGINEERING)-304	PT-ME-409G	Practical Training-II	7
18	B.TECH (MECHANICAL & AUTOMATION)-303	MC-317G	Constitution Of India	7
19	B.TECH (MECHANICAL & AUTOMATION)-303	PT-MAE- 409G	Practical Training-II)	7
20	B.TECH (MECHANICAL & AUTOMATION)-303	PT-ME-317G	Practical Training-I	5
21	B.TECH (ELECTRONICS & TELE COMMUNICATION ENGINEERING)-387	MC-417-G	Constitution of India	7
22	B.TECH (FIRE TECHNOLOGY & SAFETY)-154	MC-417G	Constitution of India	7
23	B.TECH (INFORMATION TECHNOLOGY)-374	PT-IT-423G	Practical TrainingII	7
24	B.TECH (COMPUTER SCIENCE & INFORMATION TECHNOLOGY)-390	PT-IT-423G	Practical TrainingII	7
25	B.TECH (ELECTRICAL & ELECTRONICS ENGINEERING)-310	INT -EE- 425G	Evaluation of Summer Internship	7
26	B.TECH (ELECTRICAL ENGINEERING)-372	INT -EE- 425G	Evaluation of Summer Internship	7
27	B.TECH (COMPUTER SCIENCE AND TECHNOLOGY)-201920	PEC-CSE-318G	Information Technology & Industry Business Skills	6
28	B.TECH (COMPUTER SCIENCE AND TECHNOLOGY)-201920	PT-CSE-329G	Practical Training- 1	5
29	B.TECH (COMPUTER SCIENCE & ENGINEERING)-366	PT-CSE-425G	Practical Training-II	7
30	B.TECH (CIVIL ENGINEERING)-306	PT-CE-425G	Practical Training-II	7



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Annexure 'B'

31	B.TECH (BIO-TECHNOLOGY ENGINEERING)-375	PTT-407G	Summer Training	7
32	B.TECH (COMPUTER SCIENCE & ENGINEERING)-366	MC-317G	Constitution of India	6
33	B.TECH (ELECTRONICS AND COMPUTER ENGINEERING)-389	5506	GENERAL PROFICIENCY	8
34	B.TECH (MINING ENGINEERING)-410	MC-317G	Constitution of India	3
35	B.TECH (BIO-TECHNOLOGY ENGINEERING)-375	PT-BT-311 G	Practical Training-I	5
36	B.TECH (BIO-TECHNOLOGY ENGINEERING)-375	MC-317G	Constitution of India	5
37	B.TECH (INFORMATION TECHNOLOGY)-374	PT-IT329G	Practical Training - 1	5
38	B.TECH (COMPUTER SCIENCE & INFORMATION TECHNOLOGY)-390	PT- CSIT329G	Practical Training - 1	5
39	B.TECH (ELECTRONICS AND COMPUTER ENGINEERING)-389	PT-ECSE327G	Practical Training	5
40	B.TECH (ELECTRONICS & TELE COMMUNICATION ENGINEERING)-387	PT-ETE-327G	Practical Training - 1	5
41	B.TECH (ELECTRICAL ENGINEERING)-372	PT- EE317G	Practical Training-1	5
42	B.TECH (COMPUTER SCIENCE & ENGINEERING)-366	PT-CSE-329G	Practical Training- 1	5
43	B.TECH (PRINTING TECHNOLOGY)-317	PT 321G	Practical Training	5
44	B.TECH (ELECTRICAL & ELECTRONICS ENGINEERING)-310	PT- EEE317 G	Practical Training-1	5
45	B.TECH (CIVIL ENGINEERING)-306	PT-CE-323-G	Practical Training- I	5
46	B.TECH (ELECTRONICS & COMMUNICATION ENGINEERING)-301	PT-ECE327G	Practical Training - 1	5
47	B.TECH (FIRE TECHNOLOGY & SAFETY)-154	MC315-G	Essence of Indian Traditional Knowledge	5
48	B.TECH (MECHANICAL ENGINEERING)-304	MC-315G	Essence of Indian Traditional knowledge	5
49	B.TECH (MECHANICAL ENGINEERING)-304	PT-ME-317G	Practical Training-I	5
50	B.TECH (MECHANICAL ENGINEERING)-304	4584	PRACTICAL TRAINING -II ME-415-F	7
51	B.TECH (INFORMATION TECHNOLOGY)-374	4686	PRACTICAL TRAINING -II	7
52	B.TECH (ELECTRONICS AND COMPUTER ENGINEERING)-389	4351	PRACTICAL TRAINING-II	7
53	B.TECH (ELECTRONICS & TELE COMMUNICATION ENGINEERING)-387	ET713	PRACTICAL TRAINING	7
54	B.TECH (ELECTRONICS & COMMUNICATION ENGINEERING)-301	4521	PRACTICAL TRAINING - II	7
55	B.TECH (ELECTRICAL ENGINEERING)-372	4657	PRACTICAL TRAINING-II EE-401	7
56	B.TECH (ELECTRICAL & ELECTRONICS ENGINEERING)-310	4552	PRACTICAL TRAINING	7
57	B.TECH (COMPUTER SCIENCE & INFORMATION TECHNOLOGY)-390	4351	PRACTICAL TRAINING-II	7
58	B.TECH (CIVIL ENGINEERING)-306	4538	PRACTICAL TRAINING-II CE-457-F	7
59	B.TECH (AUTOMOBILE ENGINEERING)-318	ME415	PRACTICAL TRAINING ME-415-F	7
60	B.TECH (AUTOMOBILE ENGINEERING)-318	3060	PRACTICAL TRAINING - I ME-321-F	5

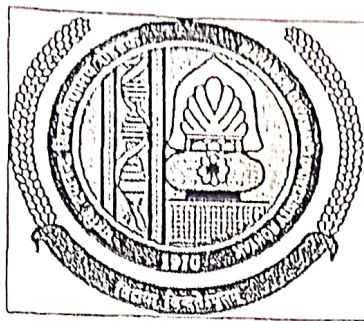


Annexure - VI

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Annexure - VI

M.D. UNIVERSITY, ROHTAK  
SCHEME OF STUDIES AND EXAMINATION  
B.Tech (Biotechnology)  
Scheme effective from 2024-25



COURSE CODE AND DEFINITIONS

Course Code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses
PCC	Professional Core Courses
LC	Laboratory Courses
MC	Mandatory Courses
PT	Practical Training
S	Seminar

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**M.D. UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES AND EXAMINATION**  
**B.Tech (Biotechnology) Scheme effective from 2024-25**  
**SEMESTER 3<sup>rd</sup>**

Sr. No.	Course Code	Course Title	Hours per week			Total Contact Hrs per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)	
			L	T	P			Mark of Class work	Theory	Practical	Total		
1	BSC-BIO-201G	Biology For Engineers	2	1	0	3	3	25	75		100	3	
2	ESC-BT-203G	Thermodynamics of Bioprocesses	3	1	0	4	4	25	75		100	3	
3	PCC-BT 205 G	Biochemistry	3	0	0	3	3	25	75		100	3	
4	PCC-BT 207 G	Cell Biology	3	0	0	3	3	25	75		100	3	
5	PCC-BT 209 G	Genetics	3	0	0	3	3	25	75		100	3	
6	HSMC-211G	English-III	3	0	0	3	3	25	75		100	3	
7	*MC -106G	Environment Science	3	0	1	4	0	25	75	-	-	3	
8	LC-BT 213 G	Biochemistry Lab.	0	0	3	3	1.5	25			25	50	3
9	LC-BT 215 G	Cell Biology Lab	0	0	3	3	1.5	25			25	50	3
10.	MC-UHV-II	Universal human values -II: Understanding Harmony	3	0	0	3	3	25	75	--		100	3
<b>Total</b>								25				800	

MC-106G is a mandatory non –credit course in which the students will be required passing marks in theory.



**M.D. UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES AND EXAMINATION**  
**B.Tech (Biotechnology) Scheme effective from 2024-25**  
**SEMESTER 4TH**

Sr. No.	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)	
			L	T	P			Mark of Class work	Theory	Practical	Total		
1	PCC-BT 202 G	Microbiology	3	0	0	3	3	25	75		100	3	
2	PCC-BT 204 G	Molecular Biology	3	0	0	3	3	25	75		100	3	
3	PCC-BT 206 G	Immunology	3	0	0	3	3	25	75		100	3	
4	ESC-BT-208G	Bioprocess Engineering	3	0	0	3	3	25	75		100	3	
5	BSC-BS 210 G	Biostatistics	3	1	0	4	4	25	75		100	3	
6	HSMC-02G	Organizational Behaviour	3	0	0	3	3	25	75		100	3	
7	LC-BT 212 G	Microbiology Lab.		0	3	3	1.5	25		25	50	3	
8	LC-BT 214 G	Molecular Biology Lab.	0	0	3	3	1.5	25		25	50	3	
9	LC-BT 216 G	Immunology Lab	0	0	3	3	1.5	25		25	50	3	
<b>Total</b>								23.5				750	

**NOTE:** At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its location shall be carried out in the 5th Semester.

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MAHARSHI DAYANAND UNIVERSITY, ROHTAK  
SCHEME OF STUDIES AND EXAMINATION

Bachelor of Technology (Civil Engineering) Scheme effective from 2024-25

SEMESTER 3<sup>rd</sup>

Sr. No.	Course Code	Course Title	Hours per week	Contact hours per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	HSMC-201-G	Economics For Engineers	2-0-0	2	2	25	75	-	100	3
2.	PCC-201-G	Introduction to Civil Engineering	2-0-0	2	2	25	75	-	100	3
3.	BSC-Math-205-G	Mathematics III	2-1-0	3	3	25	75	-	100	3
4.	PCC-203-G	Engineering Mechanics	3-1-0	4	4	25	75	-	100	3
5.	*MC-106-G	Environmental Science	3-0-1	4	0	25	75	-	--	3
6.	PCC-CE-205-G	Fluid Mechanics	2-1-0	3	3	25	75	-	100	3
7.	PCC-CE-207-G	Surveying	2-1-0	3	3	25	75	-	100	3
8.	LC-CE-209-G	Building Drawing lab	0-0-2	2	1	25	-	25	50	3
9.	LC-CE-211-G	Engineering Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
10.	LC-CE-213-G	Fluid Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
11.	LC-CE-215-G	Surveying Lab.	0-0-2	2	1	25	-	25	50	3
<b>TOTAL</b>					<b>21</b>				<b>800</b>	

MC 106 is a mandatory non-credit course for all B.Tech. students.



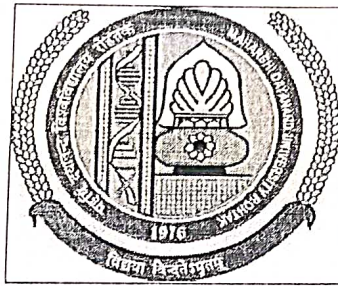
**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES AND EXAMINATION**  
**Bachelor of Technology (Civil Engineering) Scheme effective from 2024-25**  
**SEMESTER 4<sup>th</sup>**

Sr. No.	Course Code	Course Title	Hours per week	Contact hours per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	HSMC- 202-G	Organization Behavior	3-0-0	3	3	25	75	-	100	3
2.	PCC-CE-202-G	Hydraulic engineering	3-1-0	4	4	25	75	-	100	3
3.	PCC-CE-204-G	Design of concrete structure	3-1-0	4	4	25	75	-	100	3
4.	PCC-CE-206-G	Structural Analysis	2-1-0	3	3	25	75	-	100	3
5.	PCC -CE-208-G	Geomatics & Aerial surveying	3-1-0	4	4	25	75	-	100	3
6.	PCC-CE-210-G	Material Testing & Evaluation	3-0-0	3	3	25	75	-	100	3
7.	MC-UHV-II	Universal Human Values-II :Understanding Harmony	3-0-0	3	3	25	75	-	100	3
8.	LC-CE-212-G	Hydraulic engineering lab	0-0-2	2	1	25	-	25	50	3
9.	LC-CE-216-G	Geomatics & Aerial surveying Lab.	0-0-2	2	1	25	-	25	50	3
10.	LC-CE-214-G	Structural Analysis Lab	0-0-2	2	1	25	-	25	50	3
11.	LC-CE-218-G	Material Testing & Evaluation Lab.	0-0-2	2	1	25	-	25	50	3
<b>TOTAL</b>						<b>28</b>				<b>900</b>

**Note:**

- Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.
- (A) each student has to undergo practical training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc and its evaluation shall be carried

M.D. UNIVERSITY, ROHTAK  
SCHEME OF STUDIES AND  
EXAMINATION  
B.TECH (Electrical Engineering)  
SEMESTER 3<sup>rd</sup> & 4<sup>th</sup>  
Scheme effective from 2024-25



COURSE CODE AND DEFINITIONS

Course Code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses
PCC	Professional Core Courses
LC	Laboratory Courses
MC	Mandatory Courses
PT	Practical Training
S	Seminar



**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**  
**ELECTRICAL ENGINEERING**  
**B. Tech, 2<sup>nd</sup> year (3<sup>rd</sup> Semester) w.e.f 2024-25**

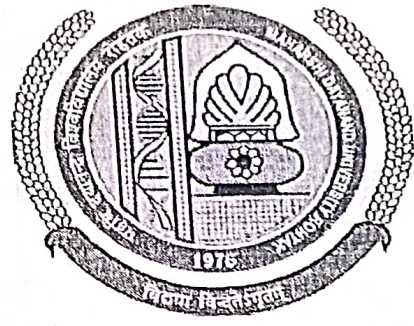
S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total Marks	Credits	Duration of Examination (in hours)
			L	T	P		Theory	Practical			
1.	PCC-EE-201G	Electric Circuit Analysis	3	1	0	25	75	0	100	4	3
2.	PCC-EE-203G	Electric Circuit Analysis Laboratory	0	0	2	25	0	25	50	1	-
3.	PCC-EE-205G	Analog Electronics	3	0	0	25	75	0	100	3	3
4.	PCC-EE-207G	Analog Electronics Laboratory	0	0	2	25	0	25	50	1	-
5.	PCC-EE-209G	Electrical Machines-I	3	1	0	25	75	0	100	4	3
6.	PCC-EE-211G	Electrical Machines-I Laboratory	0	0	2	25	0	25	50	1	-
7.	PCC-EE-210G	Measurement and Instrumentation	3	0	0	25	75	0	100	3	3
8.	PCC-EE-212G	Measurement and Instrumentation Laboratory	0	0	2	25	0	25	50	1	-
9.	ESC-202-G	Engineering Mechanics	3	1	0	25	75	0	100	4	3
10.	MC-GES-106-G	Environmental Studies	3	0	1	25	75	0	100	0	3
11	MC-UHV-II	Universal Human values – II : Understanding Harmony	3	0	0	25	75	0	100	3	3
Total									900	25	

**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**  
**ELECTRICAL ENGINEERING**  
 B. Tech, 2<sup>nd</sup> year (4<sup>th</sup> Semester) w.e.f 2024-25

S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total Marks	Credits	Duration of Examination (in hours)
			L	T	P		Theory	Practical			
1.	PCC-EE-202G	Digital Electronics	3	0	0	25	75	0	100	3	3
2.	PCC-EE-204G	Digital Electronics Laboratory	0	0	2	25	0	25	50	1	-
3.	PCC-EE-206G	Electrical Machines-II	3	1	0	25	75	0	100	4	3
4.	PCC-EE-208G	Electrical Machines-II Laboratory	0	0	2	25	0	25	50	1	-
5.	PCC-EE-210G	Transmission and Distribution	3	0	0	25	75	0	100	3	3
6.	PCC-EE-212G	Transmission and Distribution Laboratory	0	0	2	25	0	25	50	1	-
7.	PCC-EE-214G	Signals and Systems	3	0	0	25	75	0	100	3	3
8.	PCC-EE-216G	Electromagnetic Fields	3	1	0	25	75	0	100	4	3
9.	BSC-MATH-204G	Mathematics-III (Probability and Statistics)	3	1	0	25	75	0	100	4	3
10.	MC-105G	Indian Constitution	3	0	0	25	75	0	100	0	3
11.	BSC-BIO-201G	Biology-I	2	1	0	25	75	0	100	3	3
TOTAL									850	27	



**M.D. UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES AND EXAMINATION**  
**B.TECH (MECHANICAL ENGINEERING)**  
**SEMESTER 3<sup>rd</sup> & 4th**  
**Scheme effective from 2024-25**



**COURSE CODE AND DEFINITIONS**

Course Code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses
PCC	Professional Core Courses
LC	Laboratory Courses
MC	Mandatory Courses
PT	Practical Training
S	Seminar

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**MAHARSHI DAYANAND UNIVERSITY, RAIPUR**  
**Scheme of Examination for Semester IV (Second Year)**  
**B.Tech.( MECHANICAL ENGINEERING)w.e.f. 2024-25**

Sr. No.	Category Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	Theory	Practical	Total	
1	Professional Core courses	PCC-ME-202G	Applied Thermodynamics	3	1	0	4	4	25	75		100	3
2	Professional Core courses	PCC- ME-204G	Fluid Mechanics	3	1	0	4	4	25	75		100	3
3	Professional Core courses	PCC- ME-206G	Strength of materials	3	1	0	4	4	25	75		100	3
4	Professional Core courses	PCC- ME-208G	Materials Engineering	3	0	0	3	3	25	75		100	3
5	Professional Core courses	PCC- ME-210G	Instrumentation & Control	3	0	0	3	3	25	75		100	3
6	Professional Core courses	LC- ME-212G	Applied Thermodynamics Lab	0	0	2	2	1	25		25	50	3
7	Professional Core courses	LC- ME-214G	SOM Lab	0	0	2	2	1	25		25	50	3
8	Professional Core courses	LC- ME-216G	Fluid Mechanics Lab	0	0	2	2	1	25		25	50	3
9	Professional Core courses	LC- ME-218G	Materials Lab	0	0	2	2	1	25		25	50	3
10	Professional Core courses	LC- ME-220G	Instrumentation Lab	0	0	2	2	1	25		25	50	3
11	Mandatory course	MC-106G	Environment Science	3	0	1	-		25	75		-	4
12	Mandatory course	MC-UHV-II	Universal Human values -II : Understanding Harmony	2	1	0	-	3	25	75	0	100	3
<b>TOTAL CREDIT</b>								<b>26</b>				<b>850</b>	

MC-106G is a mandatory non-credit course in which the students will be required passing marks in theory.  
**NOTE:** At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.



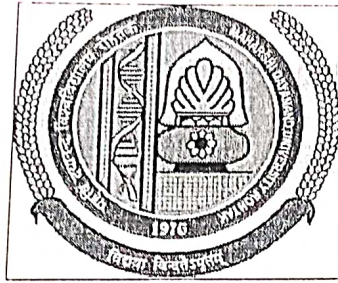
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## MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester III (Second Year)  
B.Tech ( MECHANICAL ENGINEERING)w.e.f. 2024-25

Category Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Cred it	Examination Schedule (Marks)				Duratio n of Exam (Hours)
			L	T	P			Mark of Class work	Theor y	Prac tical	Total	
Basic Science course	BSC-ME-201G	Physics II(Optics & Waves)	3	0	0	3	3	25	75		100	3
Basic Science course	BSC-ME-203G	Mathematics-III	3	1	0	4	4	25	75		100	3
Basic Science course	BSC-BIO-201G	Biology	2	1	0	3	3	25	75		100	3
Engineering Science course	ESC-ECE-207G	Basics of Electronics Engg.	2	0	0	2	2	25	75		100	3
Engineering Science course	ESC-ME-209G	Engineering Mechanics	3	0	0	3	3	25	75		100	3
Engineering Science course	ESC-ME-211G	Basics of Mechanical Engg.	2	0	0	2	2	25	75		100	3
Professional Core courses	PCC-ME-213G	Thermodynamics	3	1	0	4	4	25	75		100	3
Engineering Science course	LC-ME-215G	Basics of Mechanical Engg. lab	0	0	2	2	1	25		25	50	3
<b>TOTAL CREDIT</b>							<b>22</b>				<b>750</b>	

M.D. UNIVERSITY, ROHTAK SCHEME OF  
STUDIES AND EXAMINATION  
B.TECH (Electronics and Communication Engineering)  
Common with  
B.Tech (Electronics and Tele Communication)  
SEMESTER 3<sup>rd</sup> & 4<sup>th</sup>  
Scheme effective from 2024-25



COURSE CODE AND DEFINITIONS

Course Code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses
PCC	Professional Core Courses
LC	Laboratory Courses
MC	Mandatory Courses
PT	Practical Training
S	Seminar



MAHARSHI DAYANAND UNIVERSITY, ROHTAK  
SCHEME OF STUDIES & EXAMINATIONS

B.TECH (Electronics and Communication Engineering)  
Common with  
B.Tech (Electronics and Tele Communication)

SEMESTER -3<sup>rd</sup> w.e.f. 2024-25

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam	Contact Hrs./wk.
			L	T	P		Theory	Practical				
1	PCC-ECE201G	Electronic Devices	3	0	-	25	75	-	100	3	3	3
2	LC-ECE203G	Electronic Devices lab	0	0	2	25	-	25	50	1	3	2
3	PCC-CSE-221G	Data Structures	3	0	0	25	75	-	100	3	3	3
4	PCC-ECE209G	Signals and Systems	3	0	-	25	75	-	100	3	3	3
5	PCC-ECE211G	Network Theory	3	1	-	25	75	-	100	3	3	3
6	LC-ECE-212G	Network Theory Lab	0	0	2	25	-	25	50	1	3	2
7	LC-ECE-213G	PCB & ELECTRONIC WORKSHOP LAB	0	0	2	50	-	50	100	2	3	2
8	HSMC-01G	Economics for Engineers (Common with CSE)	3	0	0	25	75	-	100	3	3	3
9	MC-UHV-II	Universal Human values -II : Understanding Harmony	3	0	0	25	75	-	100	3	3	3
10	*MC-106G	Environmental Science	3	0	1	25	75	-	-	-	3	4
Total									800	22		28

\*MC-106G is a mandatory non-credit course in which the students will be required passing marks in theory.

## MAHARSHI DAYANAND UNIVERSITY, ROHTAK

## SCHEME OF STUDIES &amp; EXAMINATIONS

B.TECH (Electronics and Communication Engineering)

Common with

B.Tech (Electronics and Tele Communication)

SEMESTER -4th w.e.f. 2024-25

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam	Contact Hrs./wk.
			L	T	P		Theory	Practical				
1	PCC-ECE202G	Communication System	3	0	-	25	75	-	100	3	3	3
2	LC-ECE204G	Communication System lab	0	0	2	25	-	25	50	1	3	2
3	PCC-ECE206G	Analog Circuits	3	0	-	25	75	-	100	3	3	3
4	LC-ECE208G	Analog Circuits lab	0	0	2	25	-	25	50	1	3	2
5	PCC-ECE205G	Digital Electronics	3	1	-	25	75	-	100	3	3	4
6	LC-ECE207G	Digital Electronics lab	0	0	2	25	-	25	50	1	3	2
7	PCC-ECE210G	Microcontrollers	3	1	-	25	75	-	100	3	3	4
8	LC-ECE-214G	Microcontrollers Lab	0	0	2	25	-	25	50	1	3	2
9	HSMC-02G	Organizational Behavior	3	0	0	25	75	-	100	3	3	3
10	BSC-MATH-202G	Mathematics-III (Partial differential equations and Numerical methods)	3	1	-	25	75	-	100	4	3	4
Total									800	23		29

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.



**B.Tech. (Computer Science and Engineering) Common  
with B.Tech. (Information Technology)&B.Tech.  
(Computer Scienceand Information Technology)  
Modified Scheme of Studies/Examination w.e.f. 2024-25**

**Semester-4**

Sr. No.	CourseCode	CourseTitle	Hoursperweek			Total Contact Hrs. per week	Credit	ExaminationSchedule (Marks)				Duration of Exam (Hours)
			L	T	P			Mark of Class work	Theory	Practical	Total	
1	PCC-CSE-202G	Discrete Mathematics	3	1	0	3	4	25	75		100	3
2	PCC-CSE-204G	Computer Organization & Architecture	3	0	0	3	3	25	75		100	3
3	PCC-CSE-206G	Operating System	3	0	0	3	3	25	75		100	3
4	PCC-CSE-208G	Object Oriented Programming	3	0	0	3	3	25	75		100	3
5	HSMC-02G	Organizational Behaviour	3	0	0	3	3	25	75		100	3
6	*MC-106G	Environmental Sciences	3	0	1	4	0	25	75	-	-	3
7	PCC-CSE-210G	WebTechnologies	3	0	0	3	3	25	75		100	3
8	LC-CSE-212G	Operating System LAB	0	0	3	3	1.5	25		25	50	3
9	LC-CSE-214G	Object Oriented Programming LAB Using C++	0	0	3	3	1.5	25		25	50	3
10.	LC-CSE-216G	WebTechnologies Lab	0	0	2	2	1	25		25	50	3
11	MC-UHV-II	Universal Human Values-II: Understanding	3	0	0	3	3	25	75	-	100	3
<b>Total</b>							26				850	

\*MC-106G is a mandatory non-credit course in which the students will be required passing marks in theory.

**NOTE:** At the end of the semester each student has to under go Practical Training of 4/6 weeks in an Industry/Institute/Professional Organization/Research Laboratory/training centre etc. And submit typed report along with certificate from the organization & its evaluation shall be carried out in the 5th Semester.

**B.Tech. (Computer Science and Engineering)**  
**Common with B.Tech. (Information Technology) &**  
**B.Tech. (Computer Science and Information Technology)**  
**Scheme of Studies/Examination w.e.f. 2024-25**  
**Semester-3**

Sr. No.	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Mark of Class work	Theory	Practical	Total	
1	PCC-CSE-201G	Database Management Systems	3	0	0	3	3	25	75		100	3
2	PCC-CSE-203G	Data Structures & Algorithms	3	0	0	3	3	25	75		100	3
3	ESC-CSE-205G	Digital Electronics	3	0	0	3	3	25	75		100	3
4	PCC-CSE-207G	Python Programming	3	0	0	3	3	25	75		100	3
5	BSC-MATH-203G	Mathematics - III (Multivariable Calculus and Differential Equations)	2	0	0	2	2	25	75		100	3
6	HSMC-01G	Economics for Engineers	3	0	0	3	3	25	75		100	3
7	LC-CSE-209G	Database Management Systems LAB	0	0	3	3	1.5	25		25	50	3
8	LC-ESC-211G	Digital Electronics LAB	0	0	3	3	1.5	25		25	50	3
9	LC-CSE-213G	Data Structures & Algorithms LAB Using C	0	0	3	3	1.5	25		25	50	3
10	LC-CSE-215G	Python Programming LAB	0	0	3	3	1.5	25		25	50	3
<b>Total</b>							23				800	



Modified G Scheme effective from 2024-25

B. TECH CSE (Artificial Intelligence and Machine Learning)

B. TECH (Artificial Intelligence and Machine Learning)

B. TECH CSE (Artificial Intelligence)

And

B. TECH (Artificial Intelligence)

Scheme of Studies/Examination

Modified G Scheme effective from 2024-25

Semester- 3

Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)	
			L	T	P			Internal Assessment	Theory	Practical	Total		
Professional Core Course	PCC-CSE-201G (common with B.Tech.(CSE) in semester 3)	Database Management Systems	3	0	0	3	3	25	75		100	3	
Professional Core Course	PCC-CSE-203G (common with B.Tech.(CSE) in semester 3)	Data Structures & Algorithms	3	0	0	3	3	25	75		100	3	
Professional Core Course	PCC-CSE-304G common with B.Tech.(CSE) in semester 6)	Artificial Intelligence	3	0	0	3	3	25	75		100	3	
Professional Core Course	PCC-CSE-207G common with B.Tech.(CSE) in semester 3)	Python Programming	3	0	0	3	3	25	75		100	3	
Basic Science Course	BSC-MATH-271-G	Mathematics for AI	3	0	0	3	3	25	75		100	3	
Professional Core Course	PCC-CSE-208G common with B.Tech.(CSE) in semester 4)	Object Oriented Programming	3	0	0	3	3	25	75		100	3	
Professional Core Course	LC-CSE-209G common with B.Tech.(CSE) in semester 3)	Database Management Systems LAB	0	0	2	2	1	25		25	50	3	
Professional Core Course	LC-CSE-326G common with B.Tech.(CSE) in semester 6)	Artificial Intelligence Lab using Python	0	0	2	2	1	25		25	50	3	
Professional Core Course	LC-CSE-213G common with B.Tech.(CSE) in semester 3)	Data Structures & Algorithms LAB Using C	0	0	2	2	1	25		25	50	3	
Professional Core Course	LC-CSE-215G common with B.Tech.(CSE) in semester 3)	Python Programming LAB	0	0	2	2	1	25		25	50	3	
Professional Core Course	LC-CSE-214G common with B.Tech.(CSE) in semester 4)	Object Oriented Programming LAB Using C++	0	0	2	2	1	25		25	50	3	
<b>TOTAL</b>								<b>23</b>	<b>275</b>	<b>450</b>	<b>125</b>	<b>850</b>	

~~REVISIONS SUSCEPTIVE FROM 2024-25~~  
**B. TECH CSE (Artificial Intelligence and Machine Learning)**  
**B. TECH (Artificial Intelligence and Machine Learning)**  
**B. TECH CSE (Artificial Intelligence)**  
 And  
**B. TECH (Artificial Intelligence)**  
**Scheme of Studies/Examination**  
**Semester- 4**

Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Internal Assessment	Theory	Practical	Total	
Professional Core Course	PCC-CSE-202G common with B.Tech.(CSE) in semester 4)	Discrete Mathematics	3	0	0	3	3	25	75		100	3
Professional Core Course	PCC-CSE-204G common with B.Tech.(CSE) in semester 4)	Computer Organization & Architecture	3	0	0	3	3	25	75		100	3
Professional Core Course	PCC-CSE-206G common with B.Tech.(CSE) in semester 4)	Operating System	3	0	0	3	3	25	75		100	3
Professional Core Course	PCC-AIML-241G	Introduction to Machine Learning	3	0	0	3	3	25	75		100	3
Professional Core Course	PCC-CSE-303G common with B.Tech.(CSE) in semester 5)	Computer Networks	3	0	0	3	3	25	75		100	3
Professional Core Course	PCC-CSE-307G common with B.Tech.(CSE) in semester 5)	Design & Analysis of Algorithms	3	0	0	3	3	25	75		100	3
Professional Core Course	LC-CSE-325G common with B.Tech.(CSE) in semester 5)	Design & Analysis of Algorithms Using C++	0	0	2	2	1	25	-	25	50	3
Professional Core Course	LC-CSE-212G common with B.Tech.(CSE) in semester 4)	Operating System LAB	0	0	2	2	1	25		25	50	3
Professional Core Course	LC-AIML-281G	Introduction to Machine Learning Lab	0	0	2	2	1	25		25	50	3
Professional Core Course	LC-CSE-323G common with B.Tech.(CSE) in semester 5)	Computer Networks Lab	0	0	2	2	1	25	-	25	50	3
Humanities & Social Sciences Courses	HS-150G	Design Thinking	0	0	2	2	1	25	-	25	50	
Mandatory Course	MC-UHV-II	Universal Human Values-II: Understanding Harmony	3	0	0	3	3	25	75	-	100	3
<b>TOTAL</b>							<b>26</b>	<b>300</b>	<b>525</b>	<b>125</b>	<b>950</b>	

**NOTE:** At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training Centre etc. and submit a typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.



- d. In case of The Technical Institutions granted Letter of Approval but failed to admit the students due to Non-affiliation by the University/ Board or Non-Fulfilment of State Government/UT requirements, the deficiency/ requirement of Faculty and infrastructural facilities shall be calculated from the year of the admission of the students.

## 2.6 Increase in Intake / Additional Course(s)

As envisaged in the provisions laid down in National Education Policy (NEP) 2020 and the Nation's proactive initiatives towards enhancement of Gross Enrolment Ratio (GER), the Council proposes to remove the upper limit on intake allowed for the Courses / Programs offered by existing institutions Earlier. This is subject to the fulfillment of infrastructure availability, its readiness and filled faculty position. Before grant of approval to the increase in intake sought by the institution, the council shall ascertain the infrastructure and faculty availability through an EVC.

Also, NEP 2020 envisages the availability of Higher Technical Education in Indian Languages at Diploma/ Degree level as well as to impart education in mother tongue so as to enhance the creativity, critical thinking among the students. In alignment with the provisions of NEP 2020, AICTE has initiated Technical Book Writing scheme in 12 languages viz Hindi, Tamil, Gujarati, Kannada, Marathi, Bengali, Telugu, Punjabi, Odia, Assamese, Malayalam & Urdu. The books in Indian language are available for free download at <https://ekumbh.aicte-india.org> and the institutes are encouraged to use these books as text/ reference books. AICTE shall permit an addition of ONE division with 30/60 seats (as supernumerary) in Indian/Regional language against to the eligible and interested institutes.

- a. The existing Institutions shall have liberty to expand its activities by increase intake/ Addition of new/ additional Course(s). The increase in intake demanded by the institutions shall be approved in commensuration with equivalent infrastructure, facilities and faculty.
- b. Institutions shall be eligible for new Course(s) / expansion of existing Course(s) subject to the following conditions:
- Infrastructure facilities shall be as per norms mentioned in this APH.
  - Faculty required shall be as per the FSR defined in this APH.
  - Submission of additional documents as mentioned in this APH.
- c. Increase in intake / Additional Course in Diploma / Under Graduate /Post Graduate level in Engineering and Technology shall be permissible, if the Institution is already offering minimum three (3) courses in Core Branches including Multidisciplinary/Region Specific branches (as listed in Annexure-2 (Not applicable for Regional Language Courses).
- d. Building Plan for the entire duration for all Increase in Intake/Additional Course(s) of the Institution shall be prepared by an Architect registered with Council of Architecture/ Licensed Surveyor. However, Infrastructure requirements for the First Year should be completed in all aspects. Institution shall maintain Faculty: Student ratio as specified in the Approval Process Handbook. Common facilities shall cater the need of the total "Approved Intake" with total Built-up area equal to the sum total of the area requirement of each Increase in Intake/Additional Course(s).
- e. No increase in the Intake shall be given to Institutions where inquiries are pending against the Institution by any Central/State investigating agencies.
- f. Institution getting approval for new Course(s) in a particular Academic Year shall also be considered for grant of NRI/ OCI/ FN/ Children of Indian Workers in the Gulf Countries, subject to fulfilment of norms of the Approval Process Handbook.
- g. Reduction in "Core Branches" (Like Agriculture Engineering, Automobile Engineering, Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Telecommunication Engineering, Food Technology, Industrial Engineering, Electronics Instrumentation, Mechanical Engineering, Metallurgy, Mining Engineering and Textile Engineering, etc., (Refer **Annexure -11**) shall be allowed to a maximum of 50% of previously "Approved Intake" (Not less than 30).
- h. New Post Graduate Degree Course(s) in Emerging/ Multidisciplinary areas under Engineering and Technology shall be permitted and Existing Post Graduate Courses in Engineering and Technology shall



be permitted to convert into courses in Emerging/Multidisciplinary Areas as specified in **Annexure-11** of the Approval Process Handbook.

- i. The Institutions offering the Courses in Applied Arts and Crafts, Design, Planning and Hotel Management and Catering Technology shall be eligible to apply for new Course(s) at the Post Graduate Level as specified in **Annexure-11** of the Approval Process Handbook.

Scrutiny and EVC shall be conducted for any increase in intake in existing courses or new courses. Also, EVC shall be conducted, any time before the first batch of students passed out (including new course) or within the duration of the course in case of new courses approved to verify the fulfilment of the norms as specified in the Approval Process Handbook.

- k. Introduction / Continuation of specialized courses like MBA/PGDM (IEV) will be processed as per the provisions mentioned in Annexure-9.

l. The Institutions offering the Courses in Engineering and Technology, Management, Applied Arts and Crafts, Design, Planning, and Hotel Management & Catering Technology shall be eligible for an additional ONE division with 15/30/60 seats (as supernumerary) in each course at all levels to the interested institutions exclusively for Working Professionals meeting any one of the following criteria:

- i. Institutions having more than 80% average enrollment in last 3 years.
- ii. Institutions operating in Aspirational Districts (as per the latest list notified by NITI Aayog).
- iii. Institutions belonging to Jammu, Kashmir and Leh Ladakh, NER States.

**NOTE:** 1. Guidelines notified by AICTE from time to time shall be adopted by the Institutions having approval under this **Clause (2.6 (i))** for effecting admissions to the Working Professionals.

2. Affiliation with two different Universities for the same Technical programme/Courses shall NOT be permitted. However, Institutions offering Technical Courses in Computer Applications (Viz. MCA/BCA) and Management (Viz. MBA/MMS/BBA/BMS, etc.) are ONLY permitted to have Affiliation with different Universities.

3. It is the sole responsibility of the institution to obtain NOC from the Affiliating University & State Government (if applicable) before starting of the Academic Session.

## 2.7 To Start New Programme(s) / Level in the Existing Institutions

- a. The existing Institutions seeking approval to start new Programme's/ Level shall apply on AICTE Web Portal along with the Extension of Approval for the existing Programme(s) and Course(s) with the additional documents as per **Annexure- 2** of the Approval Process Handbook.
- b. The Institutions applying under Break in EoA /Restoration of intake /Hibernation are also eligible to apply.
- c. The Institutions applying under this category are also eligible to apply for other categories listed under Chapter II/ III of the Approval Process Handbook including Extension of Approval/ Continuation of NRI/ supernumerary seats for Foreign Nationals/ Overseas Citizen of India (OCI)/Children of Indian Workers in Gulf Countries for the existing Course(s).
- d. The Institution may apply for multiple Programmes and respective levels.
- e. To start new Courses under new Programmme shall be processed as per **Clause 2.6** of this APH.
- f. The Constituent Colleges of State/Central Universities shall be permitted to start Post Graduate Level Courses in Engineering & Technology without corresponding/ allied Under Graduate Level Courses. Institutions can offer PG Planning Course without Corresponding UG Course.
- g. Building Plan for the entire duration of the Programme(s) of the Institution shall be prepared by an Architect registered with the Council of Architecture/ Licensed Surveyor and shall be approved by



the Competent Authority as designated by concerned State Government/ UT. However, infrastructure requirements for the First Year should be completed in all aspects. Institution shall maintain Faculty: Student ratio as specified in the Approval Process Handbook. Common facilities shall cater the need of the total "Approved Intake".

- h. Institute should have sufficient built up area to cover all the requirements of ALL the program(s)/levels conducted as per the provisions of Approval Process Handbook.
- i. Although AICTE does permit sharing of resources, the institute shall provide ample space for play-ground (owned or hired) facilities for indoor and outdoor sports for the students either in the Campus or through arrangements with other adjacent Institutions, Corporation grounds, private facilities, etc.
- j. The Principal of the Institution shall have the qualifications (satisfying AICTE norms) corresponding to the Programme having the maximum "Approved Intake".
- k. The Institution may also seek to change the Name of the Institution.
- l. If the application for the new Programme/Level is not approved, EoA for the Institution shall be issued. However, the institution shall fulfil all the requirements as per APH for the issue of EOA.

2.8 Approval for Introduction/ Continuation of Seats for Non-Resident Indian(s)

- a. The existing Institutions seeking approval for the Introduction of Non-Resident Indian(s) shall apply on AICTE Web-Portal along with additional documents/certificates as per Annexure-2 of the Approval Process Handbook. The Institution shall have "Nil Deficiency" based on Self-Disclosure as per the Report generated.
- b. Five percent (5%) of seats within the "Approved Intake" shall be allowed for admission under NRI category.
- c. Competent Authority for admission shall be the same as for regular admission and shall fetch a list of Technical Institutions who have sought approval from the Council.
- d. The Competent Authority for admission shall display the availability of NRI seats, course/ branch wise, in various Institutions, for information of candidates during all stages of admission so that the students can freely exercise their informed choice. Also, Competent Authority for admission shall prepare a merit list of Applicants by inviting applications from eligible NRI students and admit strictly on merit basis. In the event of non-availability of students in NRI seats, the seats shall be given to general candidates as per merit. However, regular Fee shall be applicable to these candidates who have admitted against vacant NRI seats.
- e. A letter in this respect shall be issued by the Competent Authority for admission to each beneficiary. Students seeking change of branches/courses shall be allowed to do so only in the branches where NRI seats are vacant.
- f. The concerned State Government/ UT shall notify the tuition and other Fee for candidates to be admitted under NRI seats.
- g. The Institutions shall publish on their Brochure and Web site, the number of NRI seats available in the Course(s) / Division(s) for information to the students and other stake holders.

2.9 Introduction/Continuation of Supernumerary Seats for Foreign Nationals/Overseas Citizen of India (OCI)/Children of Indian Workers in Gulf Countries.

Fifteen percent (15%) supernumerary seats over and above the "Approved Intake" per Course shall be approved for AICTE approved Institutions and University Departments, for admitting students from Foreign Nationals/ Overseas Citizen of India/ Children of Indian Workers in the Gulf Countries. One third (1/3) of these 15% seats shall be reserved for the Children of Indian Workers in the Gulf Countries. The existing Institution having at least 80% (Avg) enrollment in last three years are eligible for Introduction of supernumerary seats for Foreign Nationals/ Overseas Citizen of India (OCI)/Children of Indian Workers





in Gulf Countries. The Institution shall apply on AICTE Web-Portal along with additional documents as per Annexure-2 of the Approval Process Handbook. The Institution shall have "Nil Deficiency" based on Self-Disclosure.

- a. Institutions selected for Study in India Programme by the Government of India are eligible for introduction of FN/OCI/Children of Indian Workers in Gulf Countries in ALL Programmes/ Courses without Expert Visit Committee BUT with applicable TER charges.
- b. If the Institution is providing Fee waiver to the selected students as per their commitment to the Government, the TER Charges for continuation of supernumerary seats for FN/OCI/ Children of Indian Workers in Gulf Countries shall be waived. However, the Institution shall upload on AICTE Web portal the selection letter for Study in India Programme and the document of the Fee waiver provided to the students.
- c. The Institutions shall provide suitable Hostel/ Residential accommodation to the Foreign Students/ Overseas Citizen of India (OCI) and Children of Indian workers in Gulf Countries. Further the Institutions shall also establish an Office with a Student Counselor to take care of the needs of the students admitted. An Induction Programme shall be arranged for such students to get acquainted to the Indian condition.
- d. Any vacant seat in a given Course, out of 1/3rd seats reserved for Children of Indian Workers in the Gulf Countries shall be reverted to the seats of 2/3rd meant for OCI/ Foreign Nationals and vice-versa. Further, any vacant seat in the "Foreign Nationals/ Overseas Citizen of India (OCI)/ Children of Indian Workers in Gulf Countries" after the last round of the admission of the concerned State Government/ UT may be filled with NRI seats, subject to the approval from AICTE for the NRI seats and fulfillment of requisite norms as specified in the Approval Process Handbook.
- e. NRI/ Foreign Nationals/ Overseas Citizen of India (OCI) Children of Indian Workers in the Gulf Countries seats are not allowed to be filled by Indian Citizens.
- f. Foreign Nationals/ Overseas Citizen of India (OCI) /Children of Indian Workers in the Gulf Countries admitted in AICTE approved Institutions through Indian Council for Cultural Relation (ICCR) or as Government of India nominee shall be included within this ceiling
- g. The Institution shall submit online application MANDATORILY FOR EACH COURSE (if interested) for Continuation of approval for supernumerary seats for admitting Foreign National/ Overseas Citizen of India (OCI) / Children of Indian Workers in Gulf Countries, as a part of application of Extension of Approval, every year, giving details of Faculty and other facilities.
- h. If any punitive action is enforced on an Institution, NRI/ OCI Children of Indian Workers in the Gulf Countries seats shall be withdrawn.
- i. Institutions admitting Foreign Nationals should ensure registration of foreign students with concerned Foreigners Regional Registration Officer (FRRO) as well as with the local police station about their entry and exit from India. Further the Institutions shall adhere to the prevalent norms specified by the Ministry of External Affairs, Government of India from time to time.
- j. The concerned State Government/ UT shall notify the tuition and other Fee for candidates admitted under Foreign Nationals/ OCI seats.
- k. Admission to these seats shall be made on merit basis among Applicants of these categories by the State Admission Authorities.

**Introduction of Integrated / Dual Degree Course**

- a. In respect of Integrated / Dual Degree Course(s), UGC norms shall be applicable, as per Section 4 of PART III of UGC Gazette Notification, 2014 and amended from time to time.