UNIVERSITY OF MUMBAI



Honours/Minor Degree Programs Booklet

Part 1- Manual (with effect from 2022-2023)

Honours and Minor Degree Programs

in

Engineering and Technology

1. Introduction:

As per the AICTE's Approval Process Handbook-2020-21: Chapter VII- clause 7.3.2 (Page 99-101), all branches of Engineering and Technology shall offer Elective Courses in the EMERGING AREAS viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Robotics, Quantum Computing, Data Sciences, Cyber Security, 3D Printing and

Design, Augmented Reality/ Virtual Reality (AR/VR), as specified in Annexure 1 of the Approval Process Handbook.

- a) Under Graduate Degree Courses in EMERGING AREAS shall be allowed as specialization from the same Department. The minimum additional Credits for such Courses shall be in the range of 18-20 and the same shall be mentioned in the degree, as specialization in that particular area. For example, doing extra credits for Robotics in Mechanical Engineering shall earn B.E./ B.Tech. (Hons.) Mechanical Engineering with specialization in Robotics
- b) Minor specialization in EMERGING AREAS in Under Graduate Degree Courses may be allowed where a student of another Department shall take the minimum additional Credits in the range of 18-20 and get a

degree with minor from another Department.

It is also made very clear by AICTE that areas in which Minor Degree/Honours may be offered are numerous. It is up to the Universities with the help of their Academic Board/Council to decide whether Minor Degree/Hons. is to be offered or not in any particular area, which is not mentioned above. AICTE approval is not required for offering Minor Degree/Hons. in any such area, however the criteria that "Minor Degree or Hons. will cumulatively require additional 18 to 20 credits in the specified area in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline (i.e. 160 credits)"

2. Proposed Honours and Minor Degree:

Honours and Minor degree program is introduced in order to facilitate the students to choose additionally the specialized courses in the emerging areas of their choice and build their competence in such domains. Based on AICTE guidelines, the Faculty of Science and Technology has proposed to offer following Honours/ Minor degree program corresponding to each engineering program:

Table 1: Honours / Minor Degree Programs

Sr. No	Honours/Minor degree programs
1	Infrastructure Engineering
2	Smart Cities
3	Waterways Transport Engineering

4	Professional Practices in Structural Engineering
5	Green Technology and Sustainability Engineering
6	Infrastructure Policies & Regulations
7	Artificial Intelligence and Machine Learning
8	Blockchain
9	Cyber Security
10	Virtual and Augmented Reality
11	Data Science
12	Internet of Things (IoT)
13	Waste Technology
14	Electric Vehicles
15	Microgrid Technologies
16	Robotics
17	3D Printing
18	Industrial Automation
10 11 12 13 14 15 16 17	Virtual and Augmented Reality Data Science Internet of Things (IoT) Waste Technology Electric Vehicles Microgrid Technologies Robotics 3D Printing

Note: The Honours and Minor degree programs selection for each of the engineering programs offered in University of Mumbai is as given in Table 2.

3. Honours and Minor Degree Eligibility Criteria for Students:

In view of the above-mentioned guidelines issued by AICTE in APH 2020-21 for offering Honours and Minor degree in the various engineering programs, the following recommendations are proposed on the eligibility criteria for students opting for same;

- i) Eligibility criteria for opting the Honours/ Minor Degree program:
 - a. Students with no backlog in semester I, II, and III
 - b. The CGPI (based on semester I, II, and III) of the students must be 6.75 and above
 - c. For direct second year (DSE) admitted students No backlog in semester III and CGPI must be 6.75 and above
- ii) Each eligible student can opt for maximum one Honour's or one Minor Programs at any time.
- iii) However, it is optional for leaners to take Honours/Minor degree program.
- iv) The Honours/ Minor degree program can be opted only during regular engineering studies
- v) The student shall complete the Honours/ Minor degree program in stipulated four semesters only.

4. Honours and Minor Degree Program Scheme and Structure:

Honours and Minor degree program be offered from academic year 2022-23 onwards along with Rev 2019 'C' scheme syllabus.

Honours and Minor credit courses will be offered from Semester V onwards to Semester VIII

5. Eligibility criteria for Department/Institute to offer Honours/Minor degree:

As the intention of offering the Honours degree program is to facilitate the advanced learners to build their competence in emerging areas with additional in-depth course work, it becomes very essential to ensure availability of such expert faculties and infrastructure with the departments and institutes. **The proposed modality of approval is self-assessment and declaration basis.** Institute can assess on following points before offering Honours/Minor degrees,

- 1. The Honours Degree program out of 18 programs listed in Table-1 can only be offered by an institute having the regular degree program running as specified in Table 2 column B.
- 2. Availability of Faculty expertise in domains of Honours/Minor degree domains
 - a. Regular faculty on institute role who has completed PhD/Masters in same domain.

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b. Regular faculty on institute role who is doing research either sponsored by government agencies or industries or trusts.

OR

- c. Regular faculty on institute role who has successfully completed certificate course in same domain and able to deliver the expectations of specialisation in emerging areas.
- 3. Availability of laboratory infrastructure/facilities in domains of Honours / Minor degree
 - a. Established centre of excellence in same domain.

OR

b. Built research facilities to facilitate research in emerging areas

OR

c. Minimum facility is already developed to conduct hands on experience in chosen domains of Hons and Minor degrees.

Institute shall submit declaration of availability of expertise of faculty members and laboratory facilities to offer Hons/Minor degree to University well in advance (i.e before announcement of admission) for same to the Academic Authorities.

The verification of declaration of institute shall be done by LIC committees visiting for affiliation purpose or academic audit purpose.

6. Examination and Evaluation of Honours/Minor Degree Courses:

In current scenario First Year and Final Year of engineering examinations, assessments and result declaration are entirely done by University, while as in Second and Third Year question papers are delivered by University, assessment and results preparation and declaration after approval from university is done by Institute on behalf of University following all ordinances and regulations of university. Hons/Minor degrees courses will be offered in Third and Final Year of engineering as specialisation in emerging areas.

By keeping in mind availability of expertise of faculty with particular Institute only, proposed following modalities of Examination and Evaluation,

- a. The continuous assessment and End Sem. Examination (ESE) evaluation shall follow the same pattern as adopted for corresponding semester stated by the University.
- b. Question paper will be set and delivered to institutes by University for all Hons/Minor degree
- c. End semester Assessment will be done as per the laid down practices by following all applicable ordinances and regulations of university
- d. Hons/Minor degree courses can be treated as Audit type of courses, wherein passing marks set will be 40. If any student scored equal or more than passing marks in particular course can be declared as pass.
- e. Grading of courses offered under Hons/Minor degree shall be avoided and also not included in overall CUMMULATIVE GRADE POINT AVERAGE, to bring parity with all students admitted for the basic program.
- f. Hons/Minor degree shall be conferred in addition to basic degree only after successfully completion of all courses
- g. University can make provision for entering pass or fail in course offered under Hons/Minor degree on portal.

7. Award of Honours / Minor Degree:

The students successfully completing the Honours / Minor Degree shall be awarded with the degree designated as: "B. E. in(regular) Engineering with Honours/Minor in (specialization)"

Example 1: Students s successfully completing BE in Computer Engineering with specialization (Honours) in Cyber Security shall get a degree as "B.E. Computer Engineering (Honours-Cyber Security)

Printing"

Example 2: Students successfully completing BE in Computer Engineering with specialization (Minor) in Electric Vehicles shall get a degree as "B.E. Computer Engineering (Minor - Electric Vehicles)"

Template for Honours degree Program Syllabus Scheme

	Template for Honours degree Program Syllabus Scheme									
	University of Mumbai Honours in									
	(With effect from 2022-23)									
Year	Course Code	Hours /	Teaching Sc Week	heme	Exami	ination S	Scheme a	nd Mark	(S	Credit Scheme
& Sem	and Course Title	Theory	Seminar /Tutorial	Pract.	Internal Assess ment	End Sem. Exam	Term Work	Oral/ Pract	Total	Credits
TE	HXXC501: Subject 1	04			20	80	-		100	04
Sem. V	Total	04	-		100)	-	-	100	04
									Total Cre	edits = 04
TE Sem. VI	HXXC601: Subject 2	04			20	80			100	04
	Total 04 100 100 04									
Total Credits = 04										
BE	HXXC701: Subject 3	04			20	80			100	04
Sem. VII	HXXSBL701: Lab-1			04			50	50	100	02
	Total	04	-	04	100)	50	50	200	06
Total Credits = 06										
BE Sem.VIII	HXXC801: Subject 4	04	-		20	80			100	04
	Total 04 100 100 04									
Total Credits = 04										
Total Credits for Semesters V,VI, VII &VIII = 04+04+06+04 = 18										
	101	lai Creuit	is for Semesi	LEIS V,V	, vii &viii	- 04+04	TUUTU4 -	10		
R	eference: https:/			-					page 99-1	01)

Honours and Minor Degree Programs

Mapping with Engineering/Technology Programs in University of Mumbai

Honour's/Minors degree program is being introduced by the Faculty of Science and Technology of University of Mumbai in order to facilitate the students to choose additionally the specialized courses in the emerging areas of their choice and build their competence in such domains. As per AICTE guidelines, Honours/Minors degree program to be chosen by eligible students (based on certain criteria given in manual) studying in third year of various Engineering program's are elaborated in following table to bring clarity to all stakeholders including students, faculty members and institutions. Each eligible student can opt for maximum one Honour's or one Minor Programs at any time.

Table 2: Honours and Minor Degree Program Mapping with Engineering Programs

	Honours / Minor Degree Programs	Programs who can offer this Honours Degree Program	Programs who can offer this as Minor Degree program
Row	Column A	Column B	Column C
1	Infrastructure Engineering	Civil Engineering	 Mechanical Engineering Production Engineering Automobile Engineering Mechatronics Engineering Printing and Packaging Technology Electrical Engineering Chemical Engineering Electronics and Telecomm. Engineering Electronics Engineering Computer Engineering Information Technology Instrumentation Engineering Electronics and Computer Science Artificial Intelligence & Data Science Cyber Security Computer Science and Engineering (Artificial Intelligence & Machine Learning) Computer Science and Engineering (Internet of Things & Cyber Security including Blockchain) Computer Science and Engineering (Data Science) Artificial Intelligence & Machine Learning Data Engineering Internet of Things Computer Science and Design

1. Civil and Infrastructure Engineering 2. Mechanical Engineering 3. Production Engineering 4. Automobile Engineering 5. Mechatronics Engineering 6. Printing and Packaging Technology 7. Electrical Engineering 8. Chemical Engineering 9. Electronics and Telecomm. Engineering 10. Electronics Engineering 11. Gomputer Engineering 12. Information Technology 13. Instrumentation Engineering 14. Electronics and Computer Science 15. Artificial Intelligence & Data Science 16. Cyber Security 17. Computer Science and Engineering (Artificial Intelligence & Machine Learning) 18. Computer Science and Engineering (Internet of Things & Cyber Security Including Biockchain) 19. Computer Science and Engineering 21. Internet of Things & Cyber Security Including Biockchain) 22. Artificial Intelligence & Machine Learning 23. Computer Science and Engineering 24. Automobile Engineering 25. Mechatronics Engineering 26. Printing and Packaging Technology 27. Electrical Engineering 28. Chemical Engineering 29. Electronics Engineering 29. Electronics Engineering 20. Electronics Engineering 21. Information Technology 22. Internet of Things 23. Computer Science and Engineering 24. Automobile Engineering 25. Mechatronics Engineering 26. Printing and Packaging Technology 27. Electrical Engineering 28. Chemical Engineering 39. Electronics Engineering 40. Electronics Engineering 41. Electronics Engineering 42. Information Technology 43. Information Technology 44. Electronics and Telecomm. Engineering 45. Information Technology 46. Electronics Engineering 47. Computer Engineering 48. Computer Science 49. Automobile Engineering 40. Electronics Engineering 41. Electronics Engineering 42. Information Technology 43. Information Technology 44. Electronics Engineering 45. Electronics Engineering 46. Cyber Security 47. Computer Science and Engineering 48. Electronics and Computer Science 49. Cyber Security 47. Computer Science and Engineering 48. Electronics Engineering 49. Electronics Engineering 40. Electronics Engineering 41. Electronics Engineering 42	2. Mechanic 3. Production 4. Automob 5. Mechatro 6. Printing a 7. Electrical 8. Chemical 9. Electroni 10. Electroni 11. Compute 12. Informati 13. Instrume 14. Electroni 15. Artificial 16. Cyber Ser 17. Compute (Artificial 18. Compute (Internet including 19. Compute Science) 20. Artificial 21. Data Eng 22. Internet 23. Compute 12. Informati 23. Compute 14. Electroni 25. Artificial 26. Cyber Ser 17. Compute 16. Cyber Ser 17. Compute 17. Electrical 18. Compute 18. Compute 19. Cyber Ser 19. Electroni 19.	
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19. Computer Science and Engineering		
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20. Artificial Intelligence & Machine Learning		
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			3. Production Engineering
			4. Automobile Engineering
			5. Mechatronics Engineering
			6. Printing and Packaging Technology
			7. Electrical Engineering
			8. Chemical Engineering
			9. Electronics and Telecomm. Engineering
			10. Electronics Engineering
			11. Computer Engineering
	Professional		12. Information Technology
	Practices in		13. Instrumentation Engineering
4	Structural	Civil Engineering	14. Electronics and Computer Science
	Engineering		15. Artificial Intelligence & Data Science
	Lingilicering		16. Cyber Security
			17. Computer Science and Engineering
			(Artificial Intelligence & Machine Learning)
			18. Computer Science and Engineering
			(Internet of Things & Cyber Security
			including Blockchain)
			19. Computer Science and Engineering (Data
			Science)
			20. Artificial Intelligence & Machine Learning
			21. Data Engineering
			22. Internet of Things
l			23. Computer Science and Design
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			5. Mechatronics Engineering
			6. Electrical Engineering
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			9. Computer Engineering
		1 Civil Engineering	10. Information Technology
	Green Technology	2 Chemical Engineering	11. Instrumentation Engineering
5	and Sustainability	3 Printing and Packaging Technology	12. Electronics and Computer Science
	Engineering		13. Artificial Intelligence & Data Science
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			15. Computer Science and Engineering
			(Artificial Intelligence & Machine Learning)
			16. Computer Science and Engineering
			(Internet of Things & Cyber Security
			including Blockchain)
			17. Computer Science and Engineering (Data
			Science)
			18. Artificial Intelligence & Machine Learning
			19. Data Engineering

			20 Internet of Things
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			7. Electrical Engineering
			8. Chemical Engineering
			9. Electronics and Telecomm. Engineering
			10. Electronics Engineering
			11. Computer Engineering
			12. Information Technology
			13. Instrumentation Engineering
	Infrastructure		14. Electronics and Computer Science
6	Policies &	Civil and Infrastructure Engineering	15. Artificial Intelligence & Data Science
	Regulations		16. Cyber Security
			17. Computer Science and Engineering
			(Artificial Intelligence & Machine Learning)
			18. Computer Science and Engineering
			(Internet of Things & Cyber Security
			including Blockchain)
			19. Computer Science and Engineering (Data
			Science)
			20. Artificial Intelligence & Machine Learning
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			22. Internet of Things
			23. Computer Science and Design
		1 Computer Engineering	
		2 Electronics and Telecomm.	
		Engineering	
		3 Electronics Engineering	Civil Engineering
		4 Information Technology	2. Civil and Infrastructure Engineering
		5 Electronics and Computer Science	3. Mechanical Engineering
	Artificial	6 Mechatronics Engineering	4. Production Engineering
-		7 Computer Science and Engineering	5. Automobile Engineering
7	Intelligence and	(Internet of Things & Cyber Security	6. Printing and Packaging Technology
	Machine Learning	including Blockchain)	7. Electrical Engineering
		8 Cyber Security	8. Chemical Engineering
		9 Computer Science and Engineering	9. Instrumentation Engineering
		(Data Science)	3 3
		10 Internet of Things	
		11 Data Engineering	
		12 Computer Science and Design	

		1 Computer Engineering	
		2 Electronics and Telecomm.	
		Engineering	
		3 Electronics Engineering	Civil Engineering
		4 Information Technology	2. Civil and Infrastructure Engineering
		5 Electronics and Computer Science	3. Mechanical Engineering
		6 Artificial Intelligence & Data Science	4. Production Engineering
		7 Cyber Security	5. Automobile Engineering
	Diagrapain	8 Computer Science and Engineering	6. Mechatronics Engineering
8	Blockchain	(Artificial Intelligence & Machine	7. Printing and Packaging Technology
		Learning)	8. Electrical Engineering
		9 Computer Science and Engineering	9. Chemical Engineering
		(Data Science)	10. Instrumentation Engineering
		10 Internet of Things	
		11 Data Engineering	
		12 Computer Science and Design	
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		Learning	
		1 Computer Engineering	
		2 Electronics and Telecomm.	
		Engineering	1. Civil Engineering
		3 Electronics Engineering	2. Civil and Infrastructure Engineering
		4 Information Technology	3. Mechanical Engineering
		5 Electronics and Computer Science	Production Engineering
		6 Artificial Intelligence & Data Science	Automobile Engineering
		7 Computer Science and Engineering	Mechatronics Engineering
9	Cyber Security	(Artificial Intelligence & Machine	7. Printing and Packaging Technology
		Learning)	Electrical Engineering
		8 Computer Science and Engineering	Chemical Engineering Chemical Engineering
		(Data Science)	
		9 Internet of Things	10. Instrumentation Engineering
		10 Artificial Intelligence & Machine	
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		11 Data Engineering	
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		1 Computer Engineering	
		2 Electronics and Telecomm.	
		Engineering	
		3 Electronics Engineering	
		4 Information Technology	
		5 Electronics and Computer Science	Civil Engineering
		6 Computer Science and Engineering	2. Civil and Infrastructure Engineering
		(Internet of Things & Cyber	3. Mechanical Engineering
		Security including Blockchain)	4. Production Engineering
	Virtual and	7 Artificial Intelligence & Data	5. Automobile Engineering
10	Augmented	Science 8 Cyber Security	6. Mechatronics Engineering
	Reality	-	7. Printing and Packaging Technology
		9 Computer Science and Engineering (Artificial Intelligence & Machine	8. Electrical Engineering
		Learning)	9. Chemical Engineering
		10 Computer Science and Engineering	10. Instrumentation Engineering
		(Data Science)	
		11 Internet of Things	
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		1 Computer Engineering	
		2 Electronics and Telecomm.	
		Engineering	
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		4 Information Technology	
		5 Electronics and Computer Science	
		6 Mechanical Engineering	1. Civil Engineering
		7 Production Engineering	2. Civil and Infrastructure Engineering
		8 Automobile Engineering	3. Mechatronics Engineering
		9 Computer Science and Engineering	4. Printing and Packaging Technology
11	Data Science	(Internet of Things & Cyber Security	5. Chemical Engineering
		including Blockchain)	6. Instrumentation Engineering
		10 Cyber Security	5. Motivation Engineering
		11 Computer Science and Engineering	
		(Artificial Intelligence & Machine	
		Learning)	
		12 Internet of Things	
		13 Artificial Intelligence & Machine Learning	
		14 Electrical Engineering	
		15 Computer Science and Design	
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			9. Information Technology
		1 Electrical Engineering	10. Instrumentation Engineering
		2 Mechanical Engineering	11. Electronics and Computer Science
14	Electric Vehicles	3 Production Engineering	12. Artificial Intelligence & Data Science
		4 Automobile Engineering	13. Cyber Security
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