

UTTARANCHAL UNIVERSITY

Detailed Course Structure of M.Tech. with Drone Technology

**Applicable for Batch: 2022-24
Under Choice Based Credit System (CBCS)**



Course Structure of M.Tech. with Drone Technology
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SEMESTER- I

S. No.	Course Code	Course Name	Credit
1.	MEDT-101	Advance Mathematics for industrial system	4
2.	MEDT-102	Elements of UAV System and Functionalities	4
	MEDT-103	Real time Embedded system	4
3.	MEDT-104	Robotics and dynamics	4
4.	MECC-12X	Elective- I	4
5.	MEDT-151	Robotics lab	1
6.	MEDT-152	Seminar-I	1
Total credit Sem. I			22

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SEMESTER- II

S. No.	Course Code	Course Name	Credit
1.	MEDT-201	Aerospace Navigation, Guidance and Control	4
2.	MEDT-202	UAV Material and Fabrication Methodologies	4
3.	MEDT-203	Computer Aided Engineering and Design Optimization	4
4.	MECC-22X	Elective-II	4
5.	MECC-32X	Elective-III	4
6.	MEDT-252	Seminar-II	1
7.	MEDT-253	Minor Project	1
Total credit Sem. II			22

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SEMESTER- III

S. No.	Course Code	Course Name	Credit
1.	MEDT-351	Seminar -III	2
2.	MEDT-352	Dissertation Phase-I	12
Total credit Sem. III			14

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SEMESTER- IV

S. No.	Course Code	Course Name	Credit
1.	MEDT-451	Dissertation Phase-II	12
Total credit Sem. IV			12

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LIST OF ELECTIVES

ELECTIVE – I

S. No.	Course Code	Course Title
1	MECC-121	Optical Fiber Communication Systems
2	MECC-122	Digital Image Processing
3	MECC-123	Mobile Communications
4	MECC124	Speech Processing

ELECTIVE – II

S. No.	Course Code	Course Title
1	MECC-221	Satellite Communication
2	MECC-222	Mobile Networks
3	MECC-223	Wireless Communication Systems
4	MECC-224	Wireless Sensor Network

ELECTIVE – III

S. No.	Course Code	Course Title
1	MECC-321	VLSI Digital signal Processing
2	MECC-322	Reconfigurable Computing
3	MECC-323	Fuzzy Systems & Neural Networks
4	MECC-324	Internet of Things