

Bachelor of Science-Aeronautics (Mechanical)

Intake Capacity : 60 Students

Candidate shall have passed H.S.C. examination of Maharashtra State Board of Secondary and Higher Secondary Education with Physics, Mathematics and English have secured not less than 45% mark in aggregate (40% marks in case of reserved category candidate). This course shall be a full time course. The duration of course will be six semesters spread over three years.

Course Details :

First Year	
Semester I	Semester II
1.USARM101 BASIC AERODYNAMICS	1.USARM201 Electrical Fundamentals (II)
2.USARM102 WORKSHOP TECHNOLOGY	2.USARM202 Electronics Fundamentals
3.USARM103 ELECTRICAL FUNDAMENTAL(I)	3.USARM203 Maintenance Practices (I)
4.USARM104 ENGINEERING DRAWING	4.USARM204 Aircraft Structure
5.USARM105 HUMAN FACTORS / COMMUNICATION SKILL	5.USARM205 Environmental Studies
6.USARM1P1 BASIC AERODYNAMICS& WORKSHOP TECHNOLOGY (PRACTICAL)	6.USARM2P1 Electrical Fundamentals (II) (PRACTICAL)
7.USARM1P2 ELECTRICAL FUNDAMENTAL(I)(PRACTICAL)	7.USARM2P2 Electronics Fundamentals (PRACTICAL)
8.USARM1P3 ENGINEERING DRAWING(PRACTICAL)	8.USARM2P3 Electronics Fundamentals & Maintenance Practices (I) (PRACTICAL)
Second Year	
Semester III	Semester IV
1. USARM301 MAINTENANCE PRACTICES(II)	1.USARM401 AVIATION LEGISLATION (II)
2.USARM302 AVIATION LEGISLATION (I)	2.USARM402 AIRCRAFT FUEL AND FUEL SYSTEM
3.USARM303 DIGITAL AND COMPUTER TECHNIQUES	3.USARM403 AIRCRAFT HYDRAULIC & OXYGEN SYSTEM
4.USARM304 AIRCRAFT MATERIALS	4.USARM404 PISTON ENGINE & SYSTEMS
5.USARM305 THEORY OF FLIGHT CONTROLS	5.USARM405 PROPELLER
6.USARM3PI AIRCRAFT MATERIAL & MAINTENANCE PRACTICES (II)	6.USARM4P1 PISTON ENGINE & AIRCRAFT FUEL SYSTEM
7.USARM3P2 DIGITAL AND COMPUTER TECHNIQUES	7.USARM4P2 HYDRAULIC & OXYGEN SYSTEM
8.USARM3P3 THEORY OF FLIGHT & FLIGHT CONTROLS	8.USARM4P3 PROPELLER
Third Year	
Semester V	Semester VI

1.USARM501 LANDING GEAR , WHEELS & BRAKES	1.USARM601 GAS TURBINE ENGINE-II
2.USARM502 CABIN ATMOSPHERE CONTROL	2.USARM602 GROUND HANDLING & DOCUMENTATION
3.USARM503 GAS TURBINE ENGINE (I)	3.USARM603 AIRFRAME SNAGE ANALISIS AND RECTIFICATION
4.USARM504 AIRFRAME SYSTEM (II)	4.USARM604 ENGINE SNAGE ANALISIS AND RECTIFICATION
5.USARM505 AIRCRAFT STRUCTURE (II)	5.USARM6P1 GAS TURBINE ENGINE-II
6.USARM5P1 LANDING GEAR	6.USARM6P2 GROUND HANDLING & DOCUMENTATION
7.USARM5P2 CABIN ATMOSPHERE CONTROL & AIRCRAFT STRUCTURE	7.USARM6P3 AIRFRAME & ENGINE SNAGE ANALISIS AND RECTIFICATION
8.USARM5P3 GAS TURBINE ENGINE (I)	8.USARM6P4 INNOVATIVE PROJECT ON AIRFRAME SYSTEM OR ENGINE SYSTEM