

MECHANICAL STREAM (HA, JE, LA, PE)

FIRST YEAR – SEMESTER I

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
1	CAR-I & Indian Aircraft Rules	CAR-I Practical
2	Workshop Practices-I	Workshop Practical- I
3	Theory of Flight	Familiarization with Aircraft structure
4	Basic Aero Engines	Familiarization with Aero Engines and its parts

FIRST YEAR – SEMESTER II

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
5	CAR-II	CAR-II Practical
6	Workshop Practices-II	Workshop Practical- II
7	Aircraft Materials & Hardware	Familiarization with Materials & Hardware
8	Engineering Drawing	Engineering Drawing Practices

SECOND YEAR – SEMESTER III

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
9	Propellers	Engine Shop – Propellers
10	Aircraft Systems & Maintenance Practices	Familiarization with Aircraft Systems & Maintenance Practices
11	Aircraft Structures- I	Airframe Shop- I
12	Gas Turbine Engines – I	Turbine Engine Shop- I
13	Basic Electricity	Electrical Lab Practice

SECOND YEAR – SEMESTER IV

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
14	Aircraft Structures- II	Airframe Shop- II
15	Gas Turbine Engines – II	Turbine Engine Shop- II
16	Basic Aircraft Instruments	Instruments Lab Practice
17	Basic Electronics & Computers	Electronics & Computer Lab Practice
18	Basic Radio	Radio Lab Practice

THIRD YEAR – SEMESTER V

20	Engine Repair Maintenance & Overhaul	Practical - Engine Repair Maintenance & Overhaul
21	Aircraft Inspection Procedure	Practical –Aircraft Maintenance & Inspection

THIRD YEAR – SEMESTER VI

ON JOB TRAINING

On successful completion of five semesters, the students proceed to their final semester where they will undertake six month 'On Job Training' related to aircraft maintenance / airport management / ground handling / cargo management and air traffic movements. They may carry out this project at major scheduled/non-scheduled airlines, maintenance repair organizations (MRO's), avionics component repair shops, flying clubs, etc.

During this period the students will work on live and airworthy aircraft and aircraft components, thereby gaining professional hands-on experience in their chosen trade. This enables the students to attain the level of competency required for entry into the aviation industry. It also empowers the students to shoulder higher responsibilities within the aviation industry at a younger age.

AVIONICS STREAM (ES, IS, RN)

FIRST YEAR – SEMESTER I

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
1	CAR-I & Indian Aircraft Rules	CAR-I Practical
2	Workshop Practices-I	Workshop Practical's- I
3	Theory of Flight	Familiarization with aircraft structure
4	Basic Aero Engines	Familiarization with Aero engines and its parts

FIRST YEAR – SEMESTER II

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
5	CAR-II	CAR-II Practical
6	Workshop Practices-I	Workshop Practical's- II
7	Aircraft Materials & Hardware	Familiarization with Materials & Hardware
8	Engineering Drawing	Engineering Drawing Practices

SECOND YEAR – SEMESTER III

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
9	Basic Electrical & Electronics	Electrical & Electronics Lab Practice
10	Aircraft Structures	Airframe Shop
11	Aircraft Instruments- I	Instrument Lab Practice- I
12	Radio I	Radio Lab Practice - I
13	Advanced Electrical & Electronics	Electrical, Electronics & Computer Lab Practice

SECOND YEAR – SEMESTER IV

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
14	Aircraft Systems & Maintenance Practices	Familiarization with Aircraft Systems & Maintenance Practices
15	Aircraft Electricity	Electrical Lab Practice
16	Aircraft Instruments- II	Instruments Lab Practice- II
17	Radio- II	Radio Lab Practice - II

THIRD YEAR– SEMESTER V

NO.	SUBJECTS (THEORY)	SUBJECTS (PRACTICAL)
18	System Repair Maintenance & overhaul - (ES, IS, RN)	Practical System Repair Maintenance & overhaul - (ES, IS, RN)
19	Aircraft Maintenance & Inspection Procedure	Practical –Aircraft Maintenance & Inspection

THIRD YEAR– SEMESTER VI

ON JOB TRAINING

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During this period the students will work on live and airworthy aircraft and aircraft components, thereby gaining professional hands-on experience in their chosen trade. This enables the students to attain the level of competency required for entry into the aviation industry. It also empowers the students to shoulder higher responsibilities within the aviation industry at a younger age.

Note:

If a Student wants to pursue aeronautical engineering degree, after completion of three years of AME course successfully, he/she can enroll for the Aeronautical engineering from UGC Approved University under lateral entry mode in 1.5 years.