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| Course Title | VFR and IFR Communications | | | | |
| Course Code | AVM310 | | | | |
| Course Type | Compulsory | | | | |
| Level | Bachelor (1 st cycle) | | | | |
| Year / Semester | 3 rd Year / 1 st Semester | | | | |
| Instructor's name | TBA | | | | |
| ECTS | 5 | Lectures / week | 3 Hours /14 Weeks | Laboratories / week | None |
| Course Purpose and Objectives | The purpose of the VFR and IFR Communications course is to provide the knowledge necessary for the student to be able to efficiently communicate with ATC and other services under both VFR and IFR. The course aims in providing the student knowledge regarding communication definitions and principles, the general operating procedures, communication of weather information and communication procedures during emergencies. | | | | |
| Learning Outcomes | <p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Define the significant terms relating to VFR and IFR communications. • Describe the general operating procedures applied in VFR and IFR communications. • Explain the terms and means of receiving and interpreting weather information. • Describe the procedures that must be followed during communication failures. • Describe the actions that need to be taken during distress and urgency procedures. • Define the main general principles that govern VHF communications. | | | | |
| Prerequisites | AVM111 | Co-requisites | None | | |
| Course Content | <p>The material included in this course covers the following subjects:</p> <p>VFR COMMUNICATIONS</p> <ul style="list-style-type: none"> • Definitions: Meanings and significance of associated terms, Air Traffic Services abbreviations, Q-code groups commonly used in RTF air-ground communications, Categories of messages. | | | | |

- **General Operating Procedure:** Transmission of letters, Transmission of numbers (including level information), Transmission of time, Transmission technique, Standard words and phrases (relevant RTF phraseology included), Radiotelephony call signs for aeronautical stations including use of abbreviated call signs, Radiotelephony call signs for aircraft including use of abbreviated call signs, Transfer of communication, Test procedures including readability scale, Read back and acknowledgement requirements, Radar procedural phraseology.
- **Relevant Weather Information Terms (VFR):** Aerodrome weather, Weather broadcast.
- **Action required to be taken in case of communication failure**
- **Distress and Urgency Procedures:** Distress (definition, frequencies, surveillance of distress frequencies, distress signal, distress message), Urgency (definition, frequencies, urgency signal, urgency message).
- **General Principles of VHF Propagation and Allocation of Frequencies**

IFR COMMUNICATIONS

- **Definitions:** Meanings and significance of associated terms, Air Traffic Control abbreviations, Q-code groups commonly used in RTF air-ground communications, Categories of messages.
- **General Operating Procedures:** Transmission of letters, Transmission of numbers (including level information), Transmission of time, Transmission technique, Standard words and phrases (relevant RTF phraseology included), Radiotelephony call signs for aeronautical stations including use of abbreviated call signs, Radiotelephony call signs for aircraft including use of abbreviated call signs, Transfer of communication, Test procedures including readability scale; establishment of RTF communication, Read back and acknowledgement requirements, Radar procedural phraseology, Level changes and reports.
- **Action Required to be Taken In Case Of Communication Failure**
- **Distress and Urgency Procedures:** PAN medical, Distress (definition, frequencies, surveillance of distress frequencies, distress signal, distress message), Urgency (definition, frequencies, urgency signal, urgency message).
- **Relevant Weather Information Terms (IFR):** Aerodrome weather, Weather broadcast.

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| | <ul style="list-style-type: none"> • General Principles of VHF Propagation and Allocation of Frequencies • Morse Code | | | | | | |
| Teaching Methodology | Face-to-face | | | | | | |
| Bibliography | <ul style="list-style-type: none"> • Bristol ATPL (A) Ground school Manual & CBT Software | | | | | | |
| Assessment | <table border="1"> <tr> <td>Examinations</td> <td>90%</td> </tr> <tr> <td>Participation</td> <td>10%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table> | Examinations | 90% | Participation | 10% | | 100% |
| Examinations | 90% | | | | | | |
| Participation | 10% | | | | | | |
| | 100% | | | | | | |
| Language | English | | | | | | |