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|-------------------------------|--|-----------------|-------------------------|------------------------|------|
| Course Title                  | <b>Airline Safety and Safety Management Systems</b>  |                 |                         |                        |      |
| Course Code                   | AVM351   |                 |                         |                        |      |
| Course Type                   | Major Elective   |                 |                         |                        |      |
| Level                         | Bachelor (1 <sup>st</sup> cycle)   |                 |                         |                        |      |
| Year / Semester               | 3 <sup>rd</sup> Year / 2 <sup>nd</sup> Semester  |                 |                         |                        |      |
| Instructor's name             | TBA  |                 |                         |                        |      |
| ECTS                          | 5  | Lectures / week | 3 Hours/<br>14<br>Weeks | Laboratories /<br>week | None |
| Course Purpose and Objectives | The purpose of the Airline Safety and Safety Management Systems course is to provide the student with the knowledge and advanced understanding of the core concepts underlying aviation flight safety and how Safety Management Systems are implemented within Aviation Organizations.   |                 |                         |                        |      |
| Learning Outcomes             | <p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Describe the fundamental concepts of Aviation Safety</li> <li>• Describe the fundamental concepts of Safety Management Systems (SMS) as defined by ICAO and other regulatory authorities.</li> <li>• Select and implement techniques for the identification, evaluation and management of hazards and risks</li> <li>• Critically assess the ways in which safety is measured and managed within aviation environments</li> <li>• Critically assess strategies for developing and enhancing safety culture including the role of leadership, the organizational structure and reporting systems</li> <li>• Effectively implement a crisis management plan</li> </ul> |                 |                         |                        |      |
| Prerequisites                 | AVM250   | Co-requisites   | None                    |                        |      |
| Course Content                | <p>The material included in this course covers the following subjects:</p> <ul style="list-style-type: none"> <li>• Safety Management fundamentals</li> <li>• Regulatory Safety Programs, Regulations and Oversight</li> <li>• Safety culture and Leadership</li> <li>• Aviation Safety Programs</li> <li>• Safety Management Systems Philosophy and Implementation in Aviation</li> <li>• Identification of Hazards, Safety Reporting Systems and Safety Risk Management</li> </ul>   |                 |                         |                        |      |

|                      |   |              |     |             |     |               |     |  |      |
|----------------------|---|--------------|-----|-------------|-----|---------------|-----|--|------|
|                      | <ul style="list-style-type: none"> <li>• Human Factors</li> <li>• Emergency Response and Crisis Management</li> <li>• Ground and Airport Safety</li> </ul>  |              |     |             |     |               |     |  |      |
| Teaching Methodology | Face-to-face  |              |     |             |     |               |     |  |      |
| Bibliography         | <ul style="list-style-type: none"> <li>• <b>Michael Ferguson, Sean Nelson.</b> <i>Aviation Safety: A Balanced Industry Approach</i> . International Edition. Delmar Cengage Learning. 2014. ISBN 978-1-133-28432-1</li> <li>• <b>Stephen K. Cusick, Antonio I. Cortes, Clarence C. Rodrigues.</b> <i>Commercial Aviation Safety</i>. 6th Edition. McGraw Hill. 2017. ISBN 978-1-259-64182-4</li> <li>• <b>Alan J. Stolzer, Carl D. Halford, John J. Goglia.</b> <i>Implementing Safety Management Systems in Aviation</i>. Routledge. 2013. ISBN 978-1472412799</li> <li>• <b>Daniel E. Maurino., James Reason, Neil Johnston, Rob B. Lee.</b> <i>Beyond Aviation Human Factors: Safety in High Technology Systems</i>. Ashgate Publishing. 2014. ISBN 978-1-84014-948-7</li> </ul> |              |     |             |     |               |     |  |      |
| Assessment           | <table border="1"> <tr> <td>Examinations</td> <td>70%</td> </tr> <tr> <td>Assignments</td> <td>20%</td> </tr> <tr> <td>Participation</td> <td>10%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>  | Examinations | 70% | Assignments | 20% | Participation | 10% |  | 100% |
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|                      | 100%  |              |     |             |     |               |     |  |      |
| Language             | English   |              |     |             |     |               |     |  |      |