

### B.B.A. AVIATION MANAGEMENT

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
<b>III</b>	<b>25UAMVAC1</b>	<b>Value Added Course - I</b>	<b>30</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>100</b>
<b>Course Title</b>		<b>Fundamentals of Model Aviation</b>					

SYLLABUS		
Unit	Contents	Hours
<b>I</b>	<b>INTRODUCTION TO AIRCRAFT</b> <ul style="list-style-type: none"> <li>➤ Basics of aerodynamics</li> <li>➤ Components of an aircraft and their functions</li> <li>➤ Overview of aeromodelling and its applications</li> <li>➤ Visual demonstrations of aircraft models</li> <li>➤ Group discussions on the history and evolution of aeromodelling</li> <li>➤ Assembly of a basic glider model</li> </ul>	<b>6</b>
<b>II</b>	<b>PRINCIPLES OF FLIGHT</b> <ul style="list-style-type: none"> <li>➤ Forces acting on an aircraft</li> <li>➤ Airfoil and lift generation</li> <li>➤ Stability and control</li> <li>➤ Types of wings and their applications</li> <li>➤ Designing paper airplanes to understand wing shapes</li> <li>➤ Interactive quizzes</li> </ul>	<b>6</b>
<b>III</b>	<b>BUILDING STATIC MODELS</b> <ul style="list-style-type: none"> <li>➤ Materials used in aeromodelling</li> <li>➤ Techniques for cutting, shaping and assembling parts</li> <li>➤ Safety precautions</li> <li>➤ Building a static aircraft model</li> <li>➤ Group project to create models showcasing different aircraft types</li> <li>➤ Peer review and improvement sessions</li> </ul>	<b>6</b>
<b>IV</b>	<b>REMOTE-CONTROLLED (RC) AIRCRAFT BASICS</b> <ul style="list-style-type: none"> <li>➤ Introduction to RC systems and components</li> <li>➤ Basics of power systems: electric motors and batteries</li> <li>➤ Radio frequency and signal transmission</li> <li>➤ Assembling an RC aircraft model</li> <li>➤ Hands-on practice with RC systems</li> <li>➤ Troubleshooting common RC issues</li> </ul>	<b>6</b>
<b>V</b>	<b>FLIGHT SIMULATION AND TESTING</b> <ul style="list-style-type: none"> <li>➤ Basics of flight simulation software</li> <li>➤ Preparing aircraft models for flight testing</li> <li>➤ Post-flight analysis and maintenance</li> <li>➤ Practicing with flight simulation software</li> <li>➤ Conducting test flights of models</li> <li>➤ Group discussions on challenges faced and lessons learned</li> </ul>	<b>6</b>

<b>Text Book (s):</b>
<ol style="list-style-type: none"> <li>1. Siddharth M. Sharma, “Aeromodelling Made Easy” Bigfoot Publications, 2023.</li> <li>2. John D. Anderson Jr, “Introduction to Flight” McGraw Hill Education, 9<sup>th</sup> Edition, 2022.</li> <li>3. T.H.G. Megson, “Aircraft Structures for Engineering Students” Butterworth-Heinemann, 7<sup>th</sup> Edition, 2021.</li> </ol>
<b>Reference Book (s):</b>
<ol style="list-style-type: none"> <li>1. Peter Rake, “Model Aircraft Building Techniques” Crowood Press, 2012.</li> <li>2. Andy Lennon, “Basics of RC Model Aircraft Design: Practical Techniques for Building Better Models” Air Age Publishing, 2002.</li> </ol>
<b>Web Resource (s):</b>
<ol style="list-style-type: none"> <li>1. RC Groups: <a href="https://www.rcgroups.com/">https://www.rcgroups.com/</a></li> <li>2. Academy of Model Aeronautics (AMA): <a href="https://www.modelaircraft.org/">https://www.modelaircraft.org/</a></li> <li>3. Aerospace web: <a href="http://www.aerospaceweb.org/">http://www.aerospaceweb.org/</a></li> <li>4. NASA's Beginner's Guide to Aeronautics: <a href="https://www.grc.nasa.gov/www/k-12/airplane/">https://www.grc.nasa.gov/www/k-12/airplane/</a></li> <li>5. RC Airplane World: <a href="https://www.rc-airplane-world.com/">https://www.rc-airplane-world.com/</a></li> </ol>

<b>Course Outcomes</b>	
Upon successful completion of this course, the student will be able to:	
<b>CO No.</b>	<b>CO Statement</b>
CO1	Explain the basic components, functions and classifications of aircraft, along with the principles of aerodynamics and flight mechanics.
CO2	Demonstrate an understanding of lift, drag, thrust and weight in flight dynamics, and analyze the effects of different flight control surfaces on aircraft stability and maneuverability.
CO3	Develop hands-on skills in building static aircraft models with precision and accuracy, while evaluating their structural integrity and design features.
CO4	Understand the basics of remote-controlled (RC) aircraft systems and their components and demonstrate proficiency in operating RC aircraft under various flight conditions.
CO5	Utilize flight simulation tools to practice and refine aircraft control techniques, and conduct basic flight testing to analyse performance data for optimization.

**Course Coordinator: Mr. V NEWTON**

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
V	25UAMVAC2	Value Added Course - II	30	-	-	100	100
Course Title		STYLE, ELEGANCE AND PROFESSIONALISM TRAINING					

SYLLABUS		
Unit	Contents	Hours
I	<b>PROFESSIONAL IMAGE &amp; ETIQUETTE</b>	6
	Personal Grooming Basics <ul style="list-style-type: none"> <li>➤ Importance of hygiene and cleanliness</li> <li>➤ Dress code and attire for professional settings</li> <li>➤ Grooming essentials: hair, nails, skin and personal accessories</li> </ul> Professional Appearance and Styling <ul style="list-style-type: none"> <li>➤ Understanding body types and choosing appropriate attire</li> <li>➤ Colour psychology in professional settings</li> <li>➤ Accessorizing for impact: watches, shoes, and more</li> </ul> Etiquette for Professionals <ul style="list-style-type: none"> <li>➤ Dining and social etiquette</li> <li>➤ Workplace manners and respect for diversity</li> <li>➤ Greeting and introductions</li> </ul>	
II	<b>BEHAVIOURAL SKILLS FOR SUCCESS</b>	6
	Emotional Intelligence and Interpersonal Skills <ul style="list-style-type: none"> <li>➤ Understanding and managing emotions</li> <li>➤ Building rapport and active listening</li> <li>➤ Conflict resolution and empathy in communication</li> </ul> Teamwork and Collaboration <ul style="list-style-type: none"> <li>➤ Understanding team dynamics</li> <li>➤ Effective participation and leadership in a team</li> <li>➤ Handling criticism and giving constructive feedback</li> </ul> Time Management and Work Ethic <ul style="list-style-type: none"> <li>➤ Prioritizing tasks and meeting deadlines</li> <li>➤ Cultivating discipline and professionalism</li> </ul>	
III	<b>CAREER READINESS AND INDUSTRY INSIGHTS</b>	6
	Resume Building and LinkedIn Optimization <ul style="list-style-type: none"> <li>➤ Creating impactful resumes</li> <li>➤ Using LinkedIn for networking and opportunities</li> </ul> Interview Skills and Mock Sessions <ul style="list-style-type: none"> <li>➤ Common interview questions and best practices</li> <li>➤ Body language and confidence</li> </ul> Understanding Industry Trends <ul style="list-style-type: none"> <li>➤ Basics of emerging technologies</li> <li>➤ Industry-specific insights</li> </ul>	
IV	<b>NEW VENTURE CREATION &amp; MANAGEMENT</b>	6
	Introduction to Design Thinking <ul style="list-style-type: none"> <li>➤ Problem identification</li> <li>➤ Brainstorming innovative solutions</li> </ul> Business Model Basics <ul style="list-style-type: none"> <li>➤ Building a simple business plan</li> <li>➤ Financial literacy basics</li> </ul> Pitch Your Idea <ul style="list-style-type: none"> <li>➤ Preparing and presenting a business pitch</li> </ul>	

<b>V</b>	<b>PROFESSIONAL COMMUNICATION SKILLS</b>	<b>6</b>
	Verbal Communication	
	➤ Presentation techniques	
	➤ Public speaking and confidence building	
	➤ Mock presentations and feedback	
	Written Communication	
	➤ Email etiquette	
	➤ Report writing basics	
	➤ Crafting resumes and cover letters	
	Interpersonal Skills	
	➤ Active listening	
	➤ Collaboration and teamwork	
	➤ Handling conflicts professionally	

<b>Text Book (s):</b>
1. Peggy Noe Stevens, "Professional Presence: A Four-Part Approach to Building Your Personal Brand" Business Expert Press, 2023. 2. Raymond Noe, "Employee Training & Development" McGraw Hill, 9 <sup>th</sup> Edition, 2023. 3. Patsy J. Johnson, "Grooming for Success: A Guide to Professionalism" Professional Image Publishing, 2022.
<b>Reference Book (s):</b>
1. Carmine Gallo, "Talk Like TED: The 9 Public-Speaking Secrets of the World's Top Minds" St. Martin's Press, 2023. 2. Charles Stewart & William Cash, "Interviewing: Principles and Practices" McGraw-Hill Education, 2023.
<b>Web Resource (s):</b>
1. The British School of Etiquette: <a href="https://www.britishschoolofetiquette.com/">https://www.britishschoolofetiquette.com/</a> 2. Debrett's - Etiquette and Style: <a href="https://www.debretts.com/">https://www.debretts.com/</a> 3. The Art of Charm: <a href="https://theartofcharm.com/">https://theartofcharm.com/</a> 4. Glamour Magazine - Fashion & Style Advice: <a href="https://www.glamour.com/fashion">https://www.glamour.com/fashion</a> 5. Harvard Business Review - Leadership and Professionalism: <a href="https://hbr.org/">https://hbr.org/</a>

<b>Course Outcomes</b>	
Upon successful completion of this course, the student will be able to:	
<b>CO No.</b>	<b>CO Statement</b>
CO1	Develop a polished personal and professional appearance aligned with industry standards, and exhibit proper workplace etiquette, including body language, grooming and dress code.
CO2	Cultivate emotional intelligence, adaptability and resilience in professional settings while demonstrating teamwork, problem-solving and leadership skills in workplace scenarios.
CO3	Develop effective resume writing, interview techniques and job search strategies while analyzing industry trends, expectations and career opportunities for professional growth.
CO4	Explore the fundamentals of entrepreneurship, business planning and startup management while applying strategic thinking and innovation to develop sustainable business models.
CO5	Communicate effectively through verbal, non-verbal and written business communication while applying negotiation, presentation and networking skills in professional interactions.

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