



Established: 1999

Annasaheb Dange College of Engineering and Technology

Ashta - 416301, Dist. : Sangli, Maharashtra

(An Empowered Autonomous Institute)



F.Y. B. Tech. - Aeronautical Engineering

[Level 4.5, UG Certificate] Semester -I

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	BS	T1	3AEBS101	Applied Mathematics - I	3	1	-	4	4	40	20	40	-	-
2	BS	LIT2	3AEBS102	Applied Physics	3	-	2	3	4	40	20	40	50	-
3	ES	LIT2	3AEES103	Engineering Graphics	2	-	4	2	4	40	20	40	50	-
4	ES	T1	3AEES104	Basic Mechanical Engineering	3	-	-	3	3	40	20	40	-	-
5	ES	L1	3AEES105	Programming for Problem Solving using C++	1	-	2	1	2	-	-	-	50	50
6	HS	T2	3AEHS106	Indian Knowledge System	2	-	-	2	2	-	50	-	-	-
7	VSEC	L2	3AEVS107	Idea Laboratory	1	-	2	1	2	-	-	-	50	-
8	CC	L2	3BSCC1XX	Liberal Learning Course-I	-	-	2	-	1	-	-	-	50	-
Total					15	1	12	16	22					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

CC Bouquet:

BSCC121 - Introduction to Yoga and Mindfulness	BSCC123 - Six-Sigma Happiness and Mind Mechanics	BSCC125 - Community Engagement through NSS
BSCC122 - Physical Fitness and Lifestyle Management	BSCC124 - Creativity through Visual Arts	BSCC126 - Cultural Exploration & Heritage
BSCC127 - Leadership and Team Management	BSCC128 - Self Management and Purposeful Living	BSCC129 - Business Communication
BSCC130 - Mathematical Reasoning	BSCC131 - Introduction to Dance and Movement	BSCC132 - Introduction to Music and Singing
BSCC133 - Happiness and Well-Being	BSCC134 - Financial Literacy & Investment Awareness	BSCC135 - Cyber Awareness and Ethics

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC



Chairman-AC



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F.Y. B. Tech. - Aeronautical Engineering [Level 4.5, UG Certificate] Semester -II

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	BS	T1	3AEBS109	Applied Mathematics - II	3	1	-	4	4	40	20	40	-	-
2	BS	LIT2	3AEBS110	Applied Chemistry	2	-	2	2	3	40	20	40	50	-
3	PC	T1	3AEPC111	Engineering Mechanics	3	1	-	4	4	40	20	40	-	-
4	ES	T1	3AEES112	Basic Electrical & Electronics Engineering	3	1	-	4	4	40	20	40	-	-
5	ES	L2	3AEES113	Design Thinking	-	-	2	-	1	-	-	-	50	-
6	HS	L2	3AEHS114	Communication Skills	-	-	4	-	2	-	-	-	50	-
7	ES	T1	3AEES115	Introduction to Emerging Technologies	2	-	-	2	2	40	20	40	-	-
8	ES	L1	3AEES116	Python Programming for Engineers	-	-	2	-	1	-	-	-	50	50
9	CC	L2	3BSCC1XX	Liberal Learning Course-II	-	-	2	-	1	-	-	-	50	-
Total					13	3	12	12	22					

Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination

Minimum Passing Criteria	TA (Theory) : $\geq 8 / 20$	MSE + ESE (Theory) : $\geq 32 / 80$	TA (Theory) / CIA (Lab) : $\geq 20 / 50$	ESE (Lab) : $\geq 20 / 50$
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CC Bouquet:

BSCC121 - Introduction to Yoga and Mindfulness	BSCC123 - Six-Sigma Happiness and Mind Mechanics	BSCC125 - Community Engagement through NSS
BSCC122 - Physical Fitness and Lifestyle Management	BSCC124 - Creativity through Visual Arts	BSCC126 - Cultural Exploration & Heritage
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Exit Criteria after F.Y. B. Tech - Aeronautical Engineering
(As per AICTE Guidelines)

Eligibility Criteria

- I. Students will have the option to exit the Engineering program after successfully completing the first year. Upon exit, they will be awarded an Undergraduate Certificate.
- II. To be eligible for this exit option, students must also earn an additional 10 credits through any one of the following pathways:
- III. Skill-Based Subject: A course focused on developing industry-relevant technical or professional skills.
- IV. Work-Based Vocational Course: Hands-on vocational training in an engineering-related domain, typically offered during the summer term.
- V. Internship/ Apprenticeship: A minimum 8-week internship or apprenticeship in a relevant engineering domain to gain real-world experience.
- VI. Social Responsibility & Community Engagement: A community-based project in collaboration with an NGO or similar organization, applying engineering knowledge for social impact.


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S.Y. B. Tech. - Aeronautical Engineering [Level 5, UG Diploma] Semester - III

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	BS	T1	3AEBS201	Mathematical Modelling and Problem Solving	2	1	-	3	3	40	20	40	-.	-
2	PC	LIT1	3AEPC202	Solid Mechanics	2	1	2	3	4	40	20	40	50	50
3	PC	LIT1	3AEPC203	Fluid Mechanics	2	1	2	3	4	40	20	40	50	50
4	PC	LIT2	3AEPC204	Applied Thermodynamics & Heat Transfer	2	1	2	3	4	40	20	40	50	-
5	PC	L2	3AEPC205	Introduction to Aeronautical Engineering	1	-	2	1	2	-	-	-	50	-
6	VSEC	L2	3AEVS206	Parametric Modelling and Assembly	-	-	2	-	1	-	-	-	50	-
7	HS	T2	3AEHS207	Environment Studies	2	-	-	2	2	-	50	-	-	-
8	HS	T2	3AEHS208	Universal Human Values	2	-	-	2	2	-	50	-	-	-
9	HS	T2	3AEHS209	Indian Constitution	1	-	-	1	1	-	50	-	-	-
10	MA	T2	3AEMA210	Aptitude and Reasoning - I	2	-	-	-	-	-	50	-	-	-
Total					16	4	10	18	23					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIE (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

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S.Y. B. Tech. - Aeronautical Engineering
[Level 5, UG Diploma] Semester - IV

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	PC	LIT1	3AEPC211	Low Speed Aerodynamics	2	1	2	3	4	40	20	40	50	50
2	PC	LIT2	3AEPC212	Aircraft Structures	2	1	2	3	4	40	20	40	50	-
3	VSEC	L1	3AEVS213	Grid Generation Techniques	-	-	2	-	1	-	-	-	50	50
4	PE	T1	3AEPE2XX	Professional Elective - I	3	-	-	3	3	40	20	40	-	-
5	MM	LIT2	3AEXX2XX	Multidisciplinary Minor - I	3	-	2	3	4	40	20	40	50	-
6	OE	T2	3ILOE2XX	Open Elective - I	2	-	-	2	2	-	-	100	-	-
7	HS	T2	3AEHS224	Psychology	1	-	-	1	1	-	50	-	-	-
8	HS	T2	3AEHS2XX	Foreign Language	2	-	-	2	2	-	50	-	-	-
9	RM	L2	3ARML227	Research Methodology	-	-	2	-	1	-	-	-	50	-
10	EL	L2	3AEEL228	Innovation and Product Development	-	-	2	-	1	-	-	-	50	-
11	MA	T2	3AEMA229	Aptitude and Reasoning - II	2	-	-	-	-	-	50	-	-	-
Total					17	2	12	17	23					

Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination

Summer Internship (in Industry, R&D organization, or Academic Institute) shall be undertaken after the IV Semester during the summer vacation. The evaluation of the internship will be conducted during the V Semester

Minimum Passing Criteria	TA (Theory) : $\geq 8 / 20$	MSE + ESE (Theory) : $\geq 32 / 80$	TA (Theory) / CIA (Lab) : $\geq 20 / 50$	ESE (Lab) : $\geq 20/50$	ESE (Theory) : $\geq 40/100$
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Foreign Language Bouquet:

3AEHS225 -Foreign Language - German	3AEHS226 - Foreign Language - Japanese
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Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

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Exit Criteria after S.Y. of B. Tech - Aeronautical Engineering
(As per AICTE Guidelines)

Eligibility Criteria:

- All conditions applicable to the Exit Option After First Year shall also apply. In addition, the following criteria must be met:
- Students will have the option to exit the Mechanical Engineering Program after successfully completing the second year.
- To qualify for this exit option, students must complete an internship of a minimum of 8 weeks in a Aeronautical Engineering-related field, aimed at enhancing practical knowledge and industry exposure. Students must submit an **internship** report in accordance with the schedule and guidelines provided.

Outcome:

- Upon exit, they will be awarded an **Undergraduate Diploma in Aeronautical Engineering**.


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T.Y. B. Tech. - Aeronautical Engineering
[Level 5.5, UG B.Voc] Semester - V

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	PC	T1	3AEPC301	Aircraft Performance	2	1	-	3	3	40	20	40	-	-
2	PC	T1	3AEPC302	High Speed Aerodynamics	2	1	-	3	3	40	20	40	-	-
3	PC	LIT2	3AEPC303	Air Breathing Propulsion	2	1	2	3	4	40	20	40	50	-
4	VSEC	L1	3AEVS304	Non-Destructive Testing	-	-	2	-	1	-	-	-	50	50
5	PE	LIT1	3AEPE3XX	Professional Elective - II	3	-	2	3	4	40	20	40	50	50
6	MM	T1	3AEXX3XX	Multidisciplinary Minor – II	3	-	-	3	3	40	20	40	-	-
7	OE	T2	3ILOE3XX	Open Elective – II	2	-	-	2	2	-	-	100	-	-
8	HS	L2	3AEHS315	Entrepreneurship	-	-	2	-	1	-	-	-	50	-
9	CEA	L2	3AECE316	Mini Project	-	-	4	-	2	-	-	-	50	-
10	EL	L2	3AEEL317	Summer Internship	-	-	-	2	1	-	-	-	50	-
11	MA	T2	3AEMA318	Aptitude and Reasoning - III	2	-	-	-	-	-	50	-	-	-
Total					16	3	12	19	24					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50			ESE (Theory) : ≥ 40/100		

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T.Y. B. Tech. - Aeronautical Engineering

[Level 5.5, UG B.Voc] Semester - VI

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	PC	T1	3AEPC319	Aircraft Stability & Control	3	1	-	4	4	40	20	40	-	-
2	PC	L2	3AEPC320	Aircraft General Engineering & Maintenance	-	-	2	-	1	-	-	-	50	-
3	PC	T1	3AEPC321	Aircraft systems and instruments	2	-	-	2	2	40	20	40	-	-
4	VSEC	L1	3AEVS322	Geometric Dimensioning & Tolerancing	-	-	2	-	1	-	-	-	50	50
5	PE	LIT1	3AEPE3XX	Professional Elective - III	3	-	2	3	4	40	20	40	50	50
6	MM	LIT2	3AEXX3XX	Multidisciplinary Minor – III	3	-	2	3	4	40	20	40	50	-
7	OE	T2	3ILOE3XX	Open Elective – III	2	-	-	2	2	-	-	100	-	-
8	HS	T2	3AEHS333	Project Management and Finance	2	-	-	2	2	-	50	-	-	-
9	SS	T2	3AESS334	Self Study Course - I	-	-	-	-	2	-	-	100	-	-
10	MA	T2	3AEMA335	Aptitude and Reasoning - IV	2	-	-	-	-	-	50	-	-	-
Total					17	1	8	16	22					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50		ESE (Theory) : ≥ 40/100			

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC



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Exit Criteria after T.Y. of B. Tech - Aeronautical Engineering
(As per AICTE Guidelines)

Eligibility Criteria:

- Completion of all core courses in the first three years of the engineering curriculum.
- Demonstration of both theoretical understanding and practical application through:
 - Industry-Relevant Practical Training: Including internships or apprenticeships.
 - Advanced Skill-Based Course: Aligning with current industry needs.
 - Internship/Apprenticeship: At least 8 weeks in a relevant engineering field.
 - Community Engagement Project: Real-world problem-solving with societal benefit.
 - Capstone Project (Optional): Integration and application of learning outcomes across three years.

Outcome:

- Students will be awarded a **B. Voc. Degree in Aeronautical Engineering**, signifying a strong foundation in engineering concepts, technical proficiency, and vocational readiness.


Member Secretary-BoS
Chairman-BoS
Member Secretary-AC
Chairman-AC



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Final Year B. Tech. - Aeronautical Engineering
[Level 6, UG B.Tech] Semester - VII

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	PC	L1	3AEPC401	Aircraft Design Project	1	-	2	-	2	-	-	-	50	50
2	PC	LIT2	3AEPC402	Composite Materials and Structures	3	-	2	3	4	40	20	40	50	-
3	PC	LIT2	3AEPC403	Vibration and Aeroelasticity	3	-	2	3	4	40	20	40	50	-
4	PC	L2	3AEPC404	UAS Operations and Equipment Handling	-	-	2	-	1	-	-	-	50	-
5	PE	T1	3AEPE4XX	Professional Elective - IV	3	-	-	3	3	40	20	40	-	-
6	PE	T1	3AEPE4XX	Professional Elective - V	2	-	-	2	2	40	20	40	-	-
7	MM	T1	3AEXX4XX	Multidisciplinary Minor – IV	3	-	-	3	3	40	20	40	-	-
8	EL	L1	3AEEL418	Project	-	-	8	-	4	-	-	-	50	50
9	SS	T2	3AESS419	Self Study Course - II	-	-	-	-	2	-	-	100	-	-
Total					15	-	16	14	25					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50		ESE (Theory) : ≥ 40/100		

Member-Secretary-BoS

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Final Year B. Tech. - Aeronautical Engineering

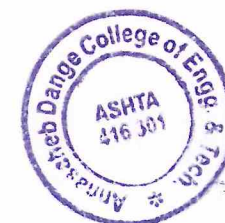
[Level 6, UG B.Tech] Semester - VIII

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
1	PE	T2	3AEPE4XX	Professional Elective - VI	3	-	-	3	3	-	-	100	-	-
2	EL	L2	3AEEL4XX	Internship	-	-	-	-	12	-	-	-	50	-
Total					3	-	-	3	15					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50		ESE (Theory) : ≥ 40/100			

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Professional Elective / Honour Tracks (20 Credits)

Name of Specialization / Track	Department Professional Elective Courses					
	PE - I [3/0/0=3]	PE - II [3/0/2=4]	PE - III [3/0/2=4]	PE - IV [3/0/0=3]	PE - V [2/0/0=2]	PE - VI [3/0/0=3]
Class	S. Y. B. Tech	T. Y. B. Tech	T. Y. B. Tech	Final Year B. Tech	Final Year B. Tech	Final Year B. Tech
Semester	IV	V	VI	VII	VII	VIII
Structural & Material Engineering	3AEPE214 - Introduction to Applied Finite Element Analysis	3AEPE305 - CAE Applications for Aeronautics	3AEPE323 - Composite Finite Analysis	3AEPE405 - Experimental Stress Analysis	3AEPE410 - Material Testing & Characterizations	MOOC Courses offered by NPTEL / SWAYAM only
Advanced Fluid Dynamics and Aerodynamic Analysis	3AEPE215 - Advanced Heat & Mass Transfer	3AEPE306 - CFD Applications for Aeronautics	3AEPE324 - Multiphase Flow & Combustion Analysis	3AEPE406 - Boundary Layer Theory	3AEPE411 - Aerodynamic Design of Axial Flow Compressors & Fans	
Defence Technology	3AEPE216 - Fundamentals of Experimental Aerodynamics	3AEPE307 - Windtunnel Techniques	3AEPE325 - Space Flight and Trajectory Dynamics	3AEPE407 - Rockets & Missiles	3AEPE412 - Systems Engineering: Launch Vehicle Design	
Drone Technology	3AEPE217 - Fundamentals of Unmanned Aerial Vehicles	3AEPE308 - UAV Maintenance, Troubleshooting	3AEPE326 - UAV Simulation and Modeling	3AEPE408 - Autonomous Navigation for UAVs	3AEPE413 - Airspace Management and Risk Assessment for UAVs	
Aviation Systems & MRO Engineering	3AEPE218 - Introduction to Air Transportation	3AEPE309 - Airframe & Aero Engine Maintenance	3AEPE327 - Virtual reality applied to aeronautical/Aviation	3AEPE409 - Airport Operation & Flight Scheduling	3AEPE414 - Air Traffic Control	

- Students may choose Professional Elective courses from a single track or across multiple tracks, based on their academic interests and career aspirations.
- Only one Professional Elective course may be selected from a given column in a semester. Additional courses from the same column may be taken in subsequent semesters, but not concurrently.
- Students opting for the Honors Degree shall complete all Honors courses from a single track, which shall be different from the track chosen for their Professional Elective courses*

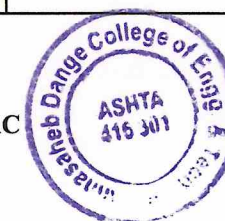
Honours (The courses under the Honours Track are exclusive to the B.Tech (Honours) programme and are not Professional Electives.)

Sustainable Aviation & Green Propulsion	Fundamentals of Sustainable Propulsion	Alternative Fuels & Combustion	Electric & Hybrid Propulsion Systems	Advanced Green Propulsion Technologies	Future Propulsion Systems and Energy Sources	MOOC Courses offered by NPTEL/SWAYAM only
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Multidisciplinary Minor (14 Credits)

Minor Stream: Aeronautical and Aviation (AA)

Sr. No.	Sem	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TE	ESE	CIE	ESE
1	IV	MM	LIT2	3AEAA219	Fundamentals of Aeronautical	3	-	2	3	4	40	20	40	50	-
2	V	MM	T1	3AEAA310	Aircraft systems and instruments	3	-	-	3	3	40	20	40	-	-
3	VI	MM	LIT2	3AEAA328	Aircraft basic maintenance and engineering	3	-	2	3	4	40	20	40	50	-
4	VII	MM	T1	3AEAA415	Air transportation and Air traffic control	3	-	-	3	3	40	20	40	-	-
	Total					12	-	4	12	14					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20			MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

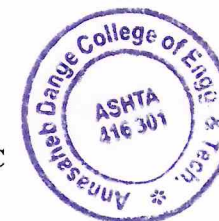
Minor Stream: Aircraft Maintenance & Airworthiness Engineering(AM)

Sr. No.	Sem	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TE	ESE	CIE	ESE
1	IV	MM	LIT2	3AEAM220	Aircraft Systems and Components	3	-	2	3	4	40	20	40	50	-
2	V	MM	T1	3AEAM311	Aircraft Structure and Materials	3	-	-	3	3	40	20	40	-	-
3	VI	MM	LIT2	3AEAM329	Virtual Reality- Based Aircraft Maintenance and Simulation	3	-	2	3	4	40	20	40	50	-
4	VII	MM	T1	3AEAM416	Human Factors in Aircraft Maintenance	3	-	-	3	3	40	20	40	-	-
Total						12	-	4	12	14					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50					


 Member Secretary-BoS


 Chairman -BoS


 Member Secretary-AC




 Chairman-AC



Established: 1999

Annasaheb Dange College of Engineering and Technology
Ashta - 416301, Dist. : Sangli, Maharashtra
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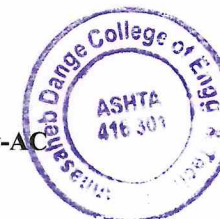


Minor Stream: Drone Technology (DT)

Sr. No.	Sem	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TE	ESE	CIE	ESE
1	IV	MM	LIT2	3AEDT221	Fundamentals of Unmanned Aerial Vehicles and Flight Operations	3	-	2	3	4	40	20	40	50	-
2	V	MM	T1	3AEDT312	UAV Maintenance and Troubleshooting	3	-	-	3	3	40	20	40	-	-
3	VI	MM	LIT2	3AEDT330	UAV Simulation and Modeling	3	-	2	3	4	40	20	40	50	-
4	VII	MM	T1	3AEDT417	Airspace Management and Risk Assessment for UAVs	3	-	-	3	3	40	20	40	-	-
	Total					12	-	4	12	14					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50					


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S.Y. B. Tech. - Aeronautical Engineering

Bridge Course: (DSY - Lateral Entry Students)

Sr. No.	Semester	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
1	I	VSEC	L2	3AEVS107	Idea Laboratory	1	-	2	1	2	-	-	-	50	-
2	II	ES	L2	3AEES113	Design Thinking	-	-	2	-	1	-	-	-	50	-
Total						1	-	4	1	3					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20			MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

- All Direct Second Year students admitted to the B.Tech. Aeronautical Engineering programme shall compulsorily undergo the prescribed bridge courses. Students admitted from diploma programmes other than the parent discipline shall additionally complete bridge courses as prescribed by the designated committee.
- Students shall complete the prescribed Semester I Bridge Courses during Semester III (Odd Semester) and the prescribed Semester II Bridge Courses during Semester IV (Even Semester).


 Member Secretary-BoS


 Chairman-BoS


 Member Secretary-AC




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S.Y. B. Tech. - Aeronautical Engineering

Bridge Course: Change in Curriculum Revision R2 to R3

Sr. No.	Semester	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
1	I	VSEC	L2	3AEVS107	Idea Laboratory	1	-	2	1	2	-	-	-	50	-
2	II	ES	T1	3AEES115	Introduction to Emerging Technologies	2	-	-	2	2	-	-	100	-	-
3	II	ES	L1	3AEES116	Python Programming for Engineers	-	-	2	-	1	-	-	-	50	50
Total						3	-	4	3	5					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50		ESE (Theory) : ≥ 40/100			

- Students shall complete the prescribed Semester I Bridge Courses during Semester III (Odd Semester) and the prescribed Semester II Bridge Courses during Semester IV (Even Semester).


 Member Secretary-BoS


 Chairman-BoS


 Member Secretary-AC




 Chairman-AC