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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Aeronautical Engineering

Scheme of Teaching and Examinations 2022

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2023-24)

III SEMESTER													
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PCC	BAE301	Aircraft Materials & Processes	TD-AE PSB-AE	3	0	0		03	50	50	100	3
2	IPCC	BAE302	Elements of Aeronautics	TD: AE PSB: AE	3	0	2		03	50	50	100	4
3	IPCC	BAE303/BAS303	Fluid Mechanics	TD: AE PSB: AE	3	0	2		03	50	50	100	4
4	PCC	BAE304	Mechanics of Materials	TD: AE PSB: AE	3	0	0		03	50	50	100	3
5	PCCL	BAEL305/BASL305	Computer Aided Aircraft Drawing	TD: AE PSB: AE	0	0	2		03	50	50	100	1
6	ESC	BAE306x	ESC/ETC/PLC	TD: AE PSB: AE	3	0	0		03	50	50	100	3
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100	---	100	1
8	AEC/ SEC	BAE358x	Ability Enhancement Course/Skill Enhancement Course - III	TD: AE PSB: AE	If the course is a Theory				01	50	50	100	1
					1	0	0						
					If a course is a laboratory				02				
					0	0	2						
9	MC	BNSK359	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	0
		BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK359	Yoga	Yoga Teacher									
Total									550	350	900	20	

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PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **MC:** Mandatory Course (Non-credit), **AEC:** Ability Enhancement Course, **SEC:** Skill Enhancement Course, **L:** Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **ETC:** Emerging Technology Course, **PLC:** Programming Language Course

Engineering Science Course (ESC/ETC/PLC)			
BAE306A/ BAS306A	Introduction to Drone Technology	BAE306C	Aircraft Maintenance, Repair and Overhaul
BAE306B/ BAS306B	Mechanism & Machine Theory	BAE306D/ BAS306D	IOT Concepts And Algorithms
Ability Enhancement Course – III			
BAE358A/ BAS358A	Development of Soft Skills for Engineers	BAE358C	Digitalization in Aeronautics
BAE358B/ BAS358B	Ethics, Technology and Engineering	BAE358D/ BAS358D	Coding literacy

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23 may please be referred.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semesters to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

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B.E. in Aeronautical Engineering**Scheme of Teaching and Examinations 2022**

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(Effective from the academic year 2023-24)

IV SEMESTER													
Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PCC	BAE401	Aero Engineering Thermodynamics	TD- AE PSB-AE	3	0	0		03	50	50	100	3
2	IPCC	BAE402/ BAS402	Aerodynamics	TD: AE PSB: AE	3	0	2		03	50	50	100	4
3	IPCC	BAE403	Aircraft Propulsion	TD: AE PSB: AE	4	0	0		03	50	50	100	4
4	PCCL	BAEL404	Aircraft Material Testing & Processing Lab	TD: AE PSB: AE	0	0	2		03	50	50	100	1
5	ESC	BAE405x	ESC/ETC/PLC	TD: AE PSB: AE	3	0	0		03	50	50	100	3
6	AEC/ SEC	BAE456x	Ability Enhancement Course/Skill Enhancement Course- IV	TD: AE PSB: AE	If the course is Theory				01	50	50	100	1
					1	0	0						
					If the course is a lab				02				
					0	0	2						
7	BSC	BBOK407	Biology For Engineers		3	0	0		03	50	50	100	3
8	UHV	BUHK408	Universal human values course		1	0	0		01	50	50	100	1
9	MC	BNSK459	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	0
		BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK459	Yoga	Yoga Teacher									
Total									500	400	900	20	
PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability													

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **MC:** Mandatory Course (Non-credit), **AEC:** Ability

Enhancement Course, **SEC**: Skill Enhancement Course, **L**: Lecture, **T**: Tutorial, **P**: Practical **S= SDA**: Skill Development Activity, **CIE**: Continuous Internal Evaluation, **SEE**: Semester End Evaluation. **K** : This letter in the course code indicates common to all the stream of engineering.

Ability Enhancement Course / Skill Enhancement Course - IV

BAE456A	Spreadsheet-Basic for Engineers	BAE456C	Introduction to Augmented Reality
BAE456B/ BAS456B	DRONE Pilot Training	BAE456D	Introduction to programming with MATLAB and Python

Engineering Science Course (ESC/ETC/PLC)

BAE405A	Additive Manufacturing (3D Printing)	BAE405C/ BAS405C	Introduction to Space Technology
BAE405B	Turbomachines	BAE405D	Introduction to Combustion

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National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses is mandatory for the award of degree.

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V SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Self-Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	HSMS	BAE501/BAS501	Aviation Management	TD: AE PSB: AE	3	0	0		03	50	50	100	3
2	IPCC	BAE502	Aircraft Structures	TD: AE PSB: AE	3	0	2		03	50	50	100	4
3	PCC	BAE503	Unmanned Aerial Vehicles - Basics and Applications	TD: AE PSB: AE	4	0	0		03	50	50	100	4
4	PCCL	BAEL504	Energy Conversion Lab	TD: AE PSB: AE	0	0	2		03	50	50	100	1
5	PEC	BAE515x	Professional Elective Course	TD: AE PSB: AE	3	0	0		03	50	50	100	3
6	PROJ	BAE586	Mini Project	TD: AE PSB: AE	0	0	4		03	100		100	2
7	AEC	BRMK557	Research Methodology and IPR	TD: Any Department PSB: As identified by University	2	2	0		02	50	50	100	3
8	MC	BESK508	Environmental Studies	TD: Civil/ Environmental /Chemistry/ Biotech. PSB: Civil Engg	2	0	0		02	50	50	100	2
9	MC	BNSK559	National Service Scheme (NSS)	NSS coordinator	0	0	2			100		100	0
		BPEK559	Physical Education (PE) (Sports and Athletics)	Physical Education Director									

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group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

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VI SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPCC	BAE601	Composite Materials & Structures	TD: AE PSB: AE	3	0	2		03	50	50	100	4
2	PCC	BAE602	Aircraft Performance and Stability	TD: AE PSB: AE	3	2	0		03	50	50	100	4
3	PEC	BAE613x	Professional Elective Course	TD: AE PSB: AE	3	0	0		03	50	50	100	3
4	OEC	BAE654x	Open Elective Course	TD: AE PSB: AE	3	0	0		03	50	50	100	3
5	PROJ	BAE685	Project Phase I	TD: AE PSB: AE	0	0	4		03	100	--	100	2
6	PCCL	BAEL606	Flight Simulation Lab	TD: AE PSB: AE	0	0	2		03	50	50	100	1
7	AEC/SDC	BAE657x	Ability Enhancement Course/Skill Development Course V	TD: AE PSB: AE	If the course is offered as a Theory				01	50	50	100	1
					1	0	0						
					If course is offered as a practical								
					0	0	2						
8	IKS	BIKS609	Indian Knowledge System		1	0	0		01	100	0	100	0
9	MC	BNSK658	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	0

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		BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Education Director										
		BYOK658	Yoga	Yoga Teacher										
Total										500	300	800	18	
Professional Elective Course														
BAE613A	Flight Vehicle Design				BAE613C	Guidance & Navigation								
BAE613B	Airframe Structural Design				BAE613D	Vibration & Aeroelasticity								
Open Elective Course														
BAE654A/ BAS654A	Introduction to Aerospace History				BAE654C	Introduction to UAV								
BAE654B/BAS654B	Introduction to Helicopters				BAE654D	Introduction to Flight Simulator								
Ability Enhancement Course / Skill Enhancement Course-V														
BAE657A/ BAS657A	Probability and statistics for Aerospace Engineering				BAE657C	Introduction to Swarm Drone								
BAE657B/ BAS657B	Virtual Aircraft Simulation				BAE657D	Multi-disciplinary Research in Aeronautical Engineering								
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Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical’s of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23														
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Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and														

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Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

Project Phase-I : Students have to discuss with the mentor /guide and with their help he/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.

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(Effective from the academic year 2023-24)

VII SEMESTER (Swappable VII and VIII SEMESTER)

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Self-Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPCC	BAE701	Avionics and Systems	TD: AE PSB: AE	3	0	2		03	50	50	100	4
2	IPCC	BAE702/ BAS702	Computational Fluid Dynamics	TD: AE PSB: AE	3	0	2		03	50	50	100	4
3	PCC	BAE703/ BAS703	Control Engineering	TD: AE PSB: AE	4	0	0		03	50	50	100	4
4	PEC	BAE714x	Professional Elective Course	TD: AE PSB: AE	3	0	0		03	50	50	100	3
5	OEC	BAE755x	Open Elective Course	TD: AE PSB: AE	3	0	0		01	50	50	100	3
6	PROJ	BAE786	Major Project Phase-II	TD: AE PSB: AE	0	0	12		03	100	100	200	6
										400	300	700	24

Professional Elective Course

BAE714A	Gas Turbine Technology	BAE714C/ BAS714C	Fight Testing
BAE714B	Wind Tunnel Techniques	BAE714D/ BAS714D	AI and ML for Aerospace Applications

Open Elective Course

BAE755A/BAS755A	Earth and Space Science	BAE755C	Basics of Flight Simulation
BAE755B/BAS755B	Air Traffic and Weather	BAE755D/BAS755D	Aviation and Internet Infrastructure

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **PEC:** Professional Elective Course, **OEC:** Open Elective Course **PR:** Project Work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **TD-** Teaching Department, **PSB:** Paper Setting department, **OEC:** Open Elective Course, **PEC:** Professional Elective Course. **PROJ:** Project work

Note: VII and VIII semesters of IV years of the program

(1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/ industry internships after the VI semester.

(2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIII semesters is completed during the beginning of the IV year or the later part of IV years of the program.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

PROJECT WORK (21XXP75): The objective of the Project work is

- (i)** To encourage independent learning and the innovative attitude of the students.
- (ii)** To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- (iii)** To impart flexibility and adaptability.
- (iv)** To inspire team working.
- (v)** To expand intellectual capacity, credibility, judgment and intuition.
- (vi)** To adhere to punctuality, setting and meeting deadlines.
- (vii)** To install responsibilities to oneself and others.
- (viii)** To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

CIE procedure for Project Work:

(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work: SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25.

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VIII SEMESTER (Swappable VII and VIII SEMESTER)

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					Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PEC	BAE801x	Professional Elective (Online Courses)		3	0	0		03	50	50	100	3
2	OEC	BAE802x	Open Elective (Online Courses)		0	2	0		01	50	50	100	3
3	INT	BAE803	Internship (Industry/Research) (14 - 20 weeks)		0	0	12		03	100	100	200	10
										200	200	400	16

Professional Elective Course (Online courses)

Open Elective Courses (Online Courses)

L: Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **TD-** Teaching Department, **PSB:** Paper Setting department, **OEC:** Open Elective Course, **PEC:** Professional Elective Course. **PROJ:** Project work, **INT:** Industry Internship / Research Internship / Rural Internship

Note: VII and VIII semesters of IV years of the program

Swapping Facility

- Institutions can swap VII and VIII Semester Scheme of Teaching and Examinations to accommodate **research internships/ industry internships/Rural Internship** after

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the VI semester.

- Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program.

Elucidation:

At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester **Research Internship /Industrial Internship / Rural Internship** shall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of the class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship or Rural Internship.

Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation center, Incubation center, Start-up, center of Excellence (CoE), Study Centre established in the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internship is for 14 to 20 weeks. The internship shall be considered as a head of passing and shall be considered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent University examination after satisfying the internship requirements.

Research internship: A research internship is intended to offer the flavor of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship.

The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of the internship.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (**within or outside the state or abroad**), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. **University shall not bear any cost involved in carrying out the internship by students.** However, students can receive any financial assistance extended by the organization.

Professional Elective /Open Elective Course:These are ONLINE courses suggested by the respective Board of Studies. Details of these courses shall be made available for students on the VTU web portal.