



MVJ College of Engineering, Bengaluru
(An Autonomous Institute)

Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi, Recognised by UGC with 2(f) & 12 (B),
Accredited by NBA & NAAC

Scheme of Teaching and Examination 2022-23

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Effective from the academic year 2022-23

Department of Aeronautical Engineering

III SEMESTER

Sl. No.	Course		Course Title	Teaching Department	Teaching Hours/Week				Examination			Credits	
					Theory/ lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks		Total Marks
	L	T			P	S							
1	BSC	MVJ22MAT31A	Transforms and Statistical Methods	MA	2	2	0	-	03	50	50	100	3
2	IPCC	MVJ22AE32	Mechanics of Materials	AE	3	0	2	Y	03	50	50	100	4
3	PCC	MVJ22AE33	Mechanics of Fluids	AE	3	0	0	-	03	50	50	100	3
4	PCC	MVJ22AE34	Elements of Aeronautics	AE	3	0	0	-	03	50	50	100	3
5	PCCL	MVJ22AEL35	Machine Shop	AE	0	0	2	-	03	50	50	100	1
6	ESC	MVJ22AE36X	ESC/ETC/PLC	AE	3	0	0	-	03	50	50	100	3
7	SCR	MVJ22SCR37	Social Connect and Responsibility	AE	0	0	2	-	01	100	-	100	1
8	AEC/SEC	MVJ22A3YY1	AEC Vertical Level 1	Respective Vertical	1	0	2	-	02	50	50	100	2
9	MC	MVJ22NS39	National Service Scheme (NSS).	NSS coordinator	0	0	2	-	-	100	-	100	0
		MVJ22PE39	Physical Education (PE) (Sports and Athletics).	PE Director									
		MVJ22YO39	Yoga.	Yoga Teacher									
10	BSC	MVJ22MATDIP-I	Additional Mathematics-I	MA	1	2	0	-	3	100	-	100	0

IV SEMESTER

Sl. No.	Course		Course Title	Teaching Department	Teaching Hours/Week				Examination				Credits
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
	L	T			P	S							
1	BSC	MVJ22MAT41A	Complex Variables and Numerical Methods	MA	3	0	0	-	03	50	50	100	3
2	IPCC	MVJ22AE42	Incompressible Aerodynamics	AE	3	0	2	-	03	50	50	100	4
3	IPCC	MVJ22AE43	Thermodynamics	AE	3	0	2	Y	03	50	50	100	4
4	PCCL	MVJ22AEL44	CADD Lab	AE	0	0	2	-	03	50	50	100	1
5	ESC	MVJ22AE45X	ESC/ETC/PLC	AE	3	0	0	-	03	50	50	100	3
6	AEC/SEC	MVJ22A4YY2	AEC Vertical Level 2	Respective Verticals	1	0	2	-	02	50	50	100	2
7	BSC	MVJ22BI47	Biology For Engineers	AE	2	0	0	-	02	50	50	100	2
8	UHV	MVJ22UHV48	Universal human values course	AE	1	0	0	-	02	50	50	100	1
9	MC	MVJ22NS49	National Service Scheme (NSS).	NSS coordinator	0	0	2	-	-	100	-	100	0
		MVJ22PE49	Physical Education (PE) (Sports and Athletics).	PE Director									
		MVJ22YO49	Yoga.	Yoga Teacher									
10	BSC	MVJ22MATDIP-II	Additional Mathematics-II	MA	1	2	0	-	3	100	-	100	0
Total					16/17	0/2	10/10	-	21/24	450/550	450/450	900/1000	20

Note: PCC: Professional Core Course, IPCC: Integrated Professional Core Course, PCCL: Professional Core Course laboratory, ESC: Engineering Science Course, ETC: Emerging Technology Course, PLC: Programming Language Course, AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, BSC: Basic Science Course, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), L: Lecture, T: Tutorial, P: Practical, S: Self Study, SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Engineering Science Course (ESC/ETC/PLC)			
MVJ22AE451	Additive Manufacturing	MVJ22AE453	Introduction to Space Technology
MVJ22AE452	Finite Element Method	MVJ22AE454	Turbomachines
Ability Enhancement Course / Skill Enhancement Course – IV - MVJ22AXYYL (X is Semester, YY is vertical Number, L is level of the vertical)			
MVJ22A4012	Idea Box - Innovation	MVJ22A4072	IoT – Connecting the world
MVJ22A4022	Tomorrow's Engineers – Engineering Solution to Societal Problems	MVJ22A4082	FSIPD –Ideas to Product
MVJ22A4032	Tinkering Lab – Experiment and Conceptualize	MVJ22A4092	Software Development - Code your ideas
MVJ22A4042	UAV – Develop Drones	MVJ22A4102	LabVIEW – Graphical Programming
MVJ22A4052	Astronomy – Explore the space	MVJ22A4112	CNC Programming – Advanced Manufacturing
MVJ22A4062	Robotics and Industrial Automation Lab – Design Robots	MVJ22A4122	NCC
<p>Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical 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</p> <p>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.</p>			

V SEMESTER

Sl. No.	Course		Course Title	Teaching Department	Teaching Hours/Week				Examination				Credits
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
	L	T			P	S							
1	HSMC	MVJ22AE51	Aviation Management	AE	3	0	0	-	03	50	50	100	3
2	IPCC	MVJ22AE52	Fundamentals of Aircraft Structures	AE	3	0	2	Y	03	50	50	100	4
3	PCC	MVJ22AE53	Compressible Aerodynamics	AE	3	2	0	-	03	50	50	100	4
4	PCCL	MVJ22AEL54	Mechanical Measurement and Metrology Lab	AE	0	0	2	-	03	50	50	100	1
5	PEC	MVJ22AE55X	Professional Elective-I	AE	3	0	0	-	03	50	50	100	3
6	PROJ	MVJ22AEP56	Mini Project	AE	0	0	4	-	03	100	-	100	2
7	AEC	MVJ22RMI57	Essence of Research Methodology and IPR	AE	2	0	0	--	03	50	50	100	3
8	MC	MVJ22ENV58	Environmental Studies	CV	2	0	0		02	50	50	100	2
9	MC	MVJ22NS59	National Service Scheme (NSS).	NSS coordinator	0	0	2	-	-	100	-	100	0
		MVJ22PE59	Physical Education (PE) (Sports and Athletics).	PE Director									
		MVJ22YO59	Yoga.	Yoga Teacher									
Total					16	2	10	-	23	550	350	900	22

Note: **HSMC:** Humanities, Social Science and Management Course, **IPCC:** Integrated Professional Core Course, **PCC:** Professional Core Course, **PCCL:** Professional Core Course laboratory, **PEC:** Professional Elective Course, **PROJ:** Project /Mini Project, **AEC:** Ability Enhancement Course, **SEC:** Skill Enhancement Course, **M C:** Mandatory Course (Non-credit), **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** Self Study, **SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

Course Code	Professional Elective-I
MVJ22AE551	Aircraft Systems and Avionics
MVJ22AE552	Rocket & Missiles
MVJ22AE553	Optimization Techniques and Probability Theory
MVJ22AE554	Industrial & Experimental Aerodynamics

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical 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

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 course is mandatory for the award of Degree.

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project 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.

No SEE component for Mini-Project.

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 a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

VI SEMESTER

Sl. No.	Course		Course Title	Teaching Department	Teaching Hours/Week				Examination			Credits	
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks		Total Marks
	Type	Code			L	T	P	S					
1	IPCC	MVJ22AE61	Aircraft Propulsion	AE	3	0	2	Y	03	50	50	100	4
2	PCC	MVJ22AE62	Aircraft Structural Analysis	AE	3	2	0	-	03	50	50	100	3
3	PEC	MVJ22AE63X	Professional Elective-II	AE	3	0	0	-	03	50	50	100	3
4	OEC	MVJ22AE64X	Open Elective-I	AE	3	0	0	-	03	50	50	100	3
5	PROJ	MVJ22AEP65	Project Phase-I	AE	0	0	4	-	03	100	-	100	2
6	PCCL	MVJ22AEL66	Design Modelling and Analysis Lab	AE	0	0	2	-	03	50	50	100	1
7	AEC/SDC	MVJ22A6YY3	AEC Vertical Level 3	Respective Vertical	1	0	2	-	02	50	50	100	1
8	HMSC	MVJ22IKK68	Indian Knowledge System	AE	1	0	0	-	02	50	50	100	1
9	MC	MVJ22NS69	National Service Scheme (NSS).	NSS coordinator	0	0	2	-	-	100	-	100	0
		MVJ22PE69	Physical Education (PE) (Sports and Athletics).	Physical Education Director									
		MVJ22YO69	Yoga.	Yoga Teacher									
Total					13	0	12	-	22	550	350	900	18

Note: IPCC: Integrated Professional Core Course, PCC: Professional Core Course, PEC: Professional Elective Course, OEC: Open Elective Course, PROJ: Project /Mini Project, PCCL: Professional Core Course laboratory, AEC: Ability Enhancement Course, MC: Mandatory Course (Non-credit), L: Lecture, T: Tutorial, P: Practical S: Self Study, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Course Code	Professional Elective-II	Course Code	Open Elective-I
MVJ22AE631	Aircraft Maintenance Repair and Overhaul	MVJ22AE641	Introduction to Aeronautics
MVJ22AE632	Composite Materials	MVJ22AE642	Introduction to Helicopters
MVJ22AE633	Theory of Vibration	MVJ22AE643	Basics on UAV Configuration
MVJ22AE634	Artificial Intelligence and Robotics	MVJ22AE644	Airline and Airport Management

Ability Enhancement Course / Skill Enhancement Course-V - MVJ22AXYYL (X is Semester, YY is vertical Number, L is level of the vertical)			
MVJ22A6013	Idea Box - Innovation	MVJ22A6073	IoT – Connecting the world
MVJ22A6023	Tomorrow’s Engineers – Engineering Solution to Societal Problems	MVJ22A6083	FSIPD –Ideas to Product
MVJ22A6033	Tinkering Lab – Experiment and Conceptualize	MVJ22A6093	Software Development - Code your ideas
MVJ22A6043	UAV – Develop Drones	MVJ22A6103	LabVIEW – Graphical Programming
MVJ22A6053	Astronomy – Explore the space	MVJ22A6113	CNC Programming – Advanced Manufacturing
MVJ22A6063	Robotics and Industrial Automation Lab – Design Robots	MVJ22A6123	NCC

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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 course is mandatory for the award of Degree.

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 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.

VII SEMESTER

Sl. No.	Course		Course Title	Teaching Department	Teaching Hours/Week				Examination				Credits
					Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
	L	T			P	S							
1	IPCC	MVJ22AE71	Aircraft Stability and Control	AE	3	0	2	-	03	50	50	100	4
	IPCC	MVJ22AE72	Computational Fluid Dynamics	AE	3	0	2	Y	03	50	50	100	4
2	PCC	MVJ22AE73	Aircraft Performance	AE	4	0	0	-	03	50	50	100	4
4	PEC	MVJ22AE74X	Professional Elective-III	AE	3	0	0	-	03	50	50	100	3
5	OEC	MVJ22AE75X	Open Elective-II	AE	3	0	0	-	03	50	50	100	3
6	PROJ	MVJ22AEP76	Major Project Phase-II	AE	0	0	12	-	03	100	100	200	6
Total					16	0	16	-	18	350	350	700	24

Note: IPCC: Integrated Professional Core Course, PCC: Professional Core Course, PEC: Professional Elective Course, OEC: Open Elective Course, PROJ: Project /Mini Project, L: Lecture, T: Tutorial, P: Practical S: Self Study, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.

Course Code	Professional Elective-III	Course Code	Open Elective-II
MVJ22AE741	Gas Turbine Technology	MVJ22AE751	Aircraft Propulsion
MVJ22AE742	Flight Testing	MVJ22AE752	Aircraft Systems and Instrumentation
MVJ22AE743	Control Engineering	MVJ22AE753	Basics of Flight Simulation
MVJ22AE744	Flight Vehicle Design	MVJ22AE753	Air Traffic and Weather

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 (MVJ22CVP76): 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.

(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.

VIII SEMESTER

Sl. No.	Course		Course Title	Teaching Department	Teaching Hours/Week				Examination				Credits
	Type	Code			Theory lecture	Tutorials	Practical/ Drawing	Self-Study Components	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PEC	MVJ22AE81X	Professional Elective-IV (Online Courses, NPTEL/SWAYAM)	EE	-	-	-	-	-	-	-	-	3
2	OEC	MVJ22AE82X	Open Elective-III (Online Courses, NPTEL/SWAYAM)	EE	-	-	-	-	-	-	-	-	3
3	INT	MVJ22AEI83	Internship (Industry/Research) (14-20 weeks)		0	0	12	-	03	100	100	200	10
Total					0	0	12	-	03	100	100	200	16

Note: PEC: Professional Elective Course, OEC: Open Elective Course, INT: Internship, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation,

Course Code	Professional Elective-IV	Course Code	Open Elective-III
MVJ22AE811	NPTEL/SWAYAM	MVJ22AE821	NPTEL/SWAYAM
MVJ22AE812	NPTEL/SWAYAM	MVJ22AE822	NPTEL/SWAYAM
MVJ22AE813	NPTEL/SWAYAM	MVJ22AE823	NPTEL/SWAYAM
MVJ22AE814	NPTEL/SWAYAM	MVJ22AE824	NPTEL/SWAYAM

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 by the respective board of studies well before starting of semester.

HOD

Dean Academics