



Karmaveer Bhaurao Patil University, Satara
Faculty of Science and Technology

B. Sc. (Animation Science)

Programme and Credit Structure as per NEP 2020

{Ref. Government of Maharashtra letter no. एनइपी.२०२२/प्र.क.०९/विशि-३शि का ना दिनांक: १३ मार्च २०२४}
The degree shall be titled as 'Bachelor of Science [Animation Science) under the faculty of Science and Technology

B. Sc. Sem. I & II from Academic Year 2024-25

B. Sc. Sem. III & IV from Academic Year 2025-26

B. Sc. Sem. V & VI from Academic Year 2026-27

B. Sc. Sem. VII&VIII from Academic Year 2027-28

Programme Outcomes for B. Sc. (Animation Science)

PO. No.	Programme Outcomes After completing B. Sc. (Animation Science) Programme the students will be able to.....
PO-1	identify and recall fundamental concepts and principles of Animation Science.
PO-2	explain and interpret theoretical and practical aspects of Animation Science, demonstrating a thorough understanding of its key elements.
PO-3	apply critical thinking and problem-solving skills to analyze animation projects, fostering a scientific and curious mindset.
PO-4	break down and examine animation techniques, experimenting with various methods and utilizing industry-standard tools and materials.
PO-5	integrate and synthesize scientific and artistic concepts, facts, and phenomena to develop innovative solutions within the context of animation.
PO-6	awareness about the impact of animation on natural resources and the environment, promoting sustainable practices in the industry.
PO-7	apply acquired knowledge in animation to various sectors, making them self-reliant and ready for industry challenges.
PO-8	develop a scientific attitude towards research in animation, fostering a positive approach to innovation and creativity.
PO-9	understanding of environmental sustainability goals, and how animation can contribute positively to these efforts.
PO-10	understanding of Animation Science, emphasizing its diverse applications across industries such as IT, automotive, mechanical, web development, VFX, graphic design, and film.
PO-11	proficient in the latest animation software and tools, This technical training is integral to their success in the animation industry.
PO-12	identify current industry trends and the evolving needs of the animation sector for both basic applied approaches to Animation Science.
PO-13	insights into the global animation industry, including emerging trends in India, where the field is rapidly growing and offering significant employment opportunities.
PO-14	coordinate logistics, marketing, and sponsorships for animation events
PO-15	analyze the impact of cultural, social, and environmental values on animation production.

		(3 Yr)	(3 Yr)		(4 Yr)	(4 Yr)		(4 Yr)	(4 Yr)	
1	Major	26	52	39.39	34	80	45.45	32	72	40.91
2	Elective	04	08	6.06	08	16	9.09	08	16	9.09
3	IKS	02	04	3.03	02	04	2.27	02	04	2.27
4	VSC	04	08	6.06	04	08	4.55	04	08	4.55
5	FP	01	02	1.52	01	02	1.14	01	02	1.14
6	OJT	01	04	3.03	02	08	4.55	01	04	2.27
7	RP	00	00	0.00	00	00	00	02	12	6.82
8	SEC	03	06	4.55	03	06	3.41	03	06	3.41
9	CEP	01	02	1.52	01	02	1.14	01	02	1.14
Total (Major) (A)		42	86	65.15	55	126	71.59	54	126	71.59
1	Minor & RM	12	24	18.18	13	28	15.91	13	28	15.91
Total (Minor) (B)		12	24	18.18	12	28	15.91	13	28	15.91
1	OE	04	08	6.06	04	08	4.55	04	08	4.55
2	AEC	04	08	6.06	04	08	4.55	04	08	4.55
3	VEC	02	04	3.03	02	04	2.27	02	04	2.27
4	CC	01	02	1.52	01	02	1.14	01	02	1.14
Total (C)		11	22	16.67	11	22	12.50	11	22	12.50
Grand Total (A+B+C)		65	132	100	79	176	100	78	176	100

Duration:

- The program shall be a full-time program.
- The duration of program shall be three years for Bachelor of Science and four years for Bachelor of Science with Honors or Bachelor of Science with Research.
- Every year students will have exist option with:
- (1st Year: Certificate, 2nd Year: Diploma, 3rd Year: Degree, 4th Year: Honors / Research)
- These students are allowed to re-enter the degree program within three years and complete the degree program within the stipulated maximum period of Seven Years.

Eligibility: 12th Pass with Science or equivalent.

Medium of Instruction: The medium of instructions shall be in English.

Scheme of Examination & Standard of Passing (CCE and ESE):

(As per the decision of the concern Board of Studies or Competent Authority)

- End Semester Exam (ESE): 30 Marks (Min 12 Marks for Passing)
- Continuous Comprehensive Evaluation (CCE): 20 Marks (Min 08 Marks for Passing)
- Total Marks = 50 Marks
- Minimum 40% Marks Required for Passing and there is separate head of Passing for End Semester Examination (ESE) and Continuous Comprehensive Evaluation (CCE).
- A candidate who acquire 32 credits or more during semester – I & II shall be admitted to B. Sc. II (appear for semester – III & IV examination).
- However the candidate shall not be admitted to B.Sc. III (Semester - V) unless he/she passed in all the subjects at B.Sc. I (Semester - I & Semester - II) and acquire 32 credits or more during semester – III & IV.
- However the candidate shall not be admitted to B. Sc. IV (Semester - VII) unless he/she passed in all the subjects at B. Sc. II and III (Semester – III to Semester - VI).
- However under the National Education Policy the rules extended by KBP University, time to time regarding ATKT will be applicable.

Eligibility of the Core Faculty:

- As per rules and regulations of Karmaveer Bhaurao Patil University, Satara and Govt. of Maharashtra.

Eligibility for Professor of Practice or Professional Trainer:

- Any other eligibility as per the guidelines and regulations passed by concern board of studies, academic council of the autonomous college and rules & regulations of Karmaveer Bhaurao Patil University, Satara and Government of Maharashtra and UGC norms.



Karmaveer Bhaurao Patil University, Satara
Faculty of Science and Technology

B. Sc. (Animation Science) Part-I

Semester I				
Sr. No.	Components	Course Code	Course Title	Credits
1	Course-I	BAST 111	Animation visual Art	02
		BAST 112	Digital Graphics	02
		BASP 113	Lab Course based on BAST 111 & BAST 112	02
2	Course-II	BAST 114	Fundamentals of Computer	02
		BAST 115	Procedural Programming language	02
		BASP 116	Lab Course based on BAST 114 & BAST 115	02
3	Course-III	BAST 117	Anatomy	02
		BAST 118	Color theory	02
		BASP 119	Lab Course based on BAST 117 & BAST 118	02
4	OE	BASTOE 1	Indian Musical Instruments	02
5	IKS	BASTIKS 1	Introduction to Indian Knowledge System	02
Total				22
Semester II				
Sr. No.	Components	Course Code	Course Title	Credits
1	Course-I	BAST 121	Computer Graphics	02
		BAST 122	Sound Editing	02
		BASP 123	Lab Course based on BAST 121 & BAST 122	02
2	Course-II	BAST 124	Web Designing	02
		BAST 125	Object Oriented Programming C++	02
		BASP 126	Lab Course based on BAST 124 & BAST 125	02
3	Course-III	BAST 127	Computer-based 2D Animation	02
		BAST 128	Video editing	02
		BASP 129	Lab Course based on BAST 127 & BAST 128	02
4	OE	BASTOE 2	History of Indian Music	02
5	VEC	BASTVEC 1	Democracy, Good Governance and Constitution of India	02
Total				22
EXIT OPTION: Award of UG Certificate in Major with 44 credits & an additional 4 credits core NSQF Course/Internship OR Continue with Major & Minor.				

B. Sc. (Animation Science) Part-II

Semester III				
Sr. No.	Components	Course Code	Course	Credits
1.	Major	BAST 231	Classical Animation	02
		BAST 232	3D Product Modeling	02
		BASP 233	Lab Course based on BAST 231 & BAST 232	02
2.	Minor	BAST 234	Python Programming	02

		BAST 235	Web Development	02
		BASP 236	Lab Course based on BAST 234 & BAST 235	02
3.	OE	BASTOE 3	Indian Music's	02
4.	VSC	BASPVSC 1	2D Digital Rigging	02
5.	SEC	BASPSEC 1	Character Designing	02
6.	AEC	BASTAEC 1	English	02
7.	IKS	BASTIKS 2	History of Computer in India	02
Total				22
Semester IV				
Sr. No.	Components		Course	Credits
1	Major	BAST 241	Digital Animation	02
		BAST 242	3D Blender	02
		BASP 243	Lab Course based on BAST 241 & BAST 242	02
2	Minor	BAST 244	AI for Animation	02
		BAST 245	PHP	02
		BASP 246	Lab Course based on BAST 244 AI & BAST 245	02
3	OE	BASTOE 4	Indian Music's	02
4	VSC	BASPVSC 2	3D Max Animation	02
5	SEC	BASPSEC 2	Architectural modelling	02
6	AEC	BASTAEC 2	English	02
7	VEC	BASTVEC 2	Environmental Studies	02
Total				22
EXIT OPTION: Award of UG Diploma in Major and Minor with 88 Credits & an additional 4 credits core NSQF Course/ Internship OR Continue with Major & Minor				

B. Sc. (Animation Science) Part-III

Semester V				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BAST 351	2D Game Design	02
2	Major	BAST 352	3D Maya Modelling & Texturing	02
3	Major	BAST 353	UI /UX	02
4	Electives	BAST 354 E-I	E- commerce	02
		BAST 354 E-II	Market research	
5	Major Lab	BASP 355	Lab Based on BAST 351, BAST 352 & BAST 353	02
6	Elective Lab	BASP 356 E -I	Lab Based on BAST 354 E- I	02
		BASP 356 E -II	Lab Based on BAST 354 E- II	
7	VSC	BASPVSC 3	3D Maya Rigging	02
8	AEC	BASTAEC 3	English	02
9	OJT	BASTOJT 1	On Job Training in Animation Science	04
10	CEP	BASTCEP 1	Community Engagement Programme in Animation Science	02
Total				22
Semester VI				
Sr. No	Components	Course Code	Course	Credits
1	Major	BAST 361	3D Game Design	02
2	Major	BAST 362	VFX (After effect)	02

3	Major	BAST 363	Dynamics and rendering	02
4	Electives	BAST 364 E-I	AR for Animation	02
		BAST 364 E-II	VR for Animation	
5	Major Lab	BASP 365	Lab Based on BAST 361, BAST 362 & BAST 363	02
6	Elective Lab	BASP 366 E-I	Lab Based on BAST 364 E-I	02
		BASP 366 E-II	Lab Based on BAST 364 E-II	
7	VSC	BASPVSC 4	Rotoscoping (silhouette)/	02
8	SEC	BASPSEC 3	Maya Character Animation	02
9	FP	BASTFP 1	Field Project in Animation Science	02
10	CC	BASTCC 1	Co-curricular Course in Animation Science	02
11	AEC	BASTAEC 4	English	02
Total				22
EXIT OPTION: Award of UG Degree in Major with 132 credits OR Continue with Major & Minor.				

B. Sc. (Animation Science) Part-IV Honors Degree

Semester VII				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BAST 471	Advanced Graphics Designing	04
2	Major	BAST 472	Compositing And Editing	04
3	Major	BAST 473	Modern Art	04
4	Electives	BAST 474 E-I	Elements of Animation Designs	02
		BAST 474 E-II	Animation Business Marketing	
5	Major Lab	BASP 475	Lab Based on BAST 471, BAST 472 & BAST 473	02
6	Elective Lab	BASP 476 E-I	Lab Based on BAST 474 E-I	02
		BASP 476 E-II	Lab Based on BAST 474 E-II	
7	Minor	BAST 477	Research Methodology	04
Total				22
Semester VIII				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BAST 481	Z Brush Modeling	04
2	Major	BAST 482	Motion Graphics	04
3	Major	BAST 483	Advanced Blender Modelling and texturing	04
4	Electives	BAST 484 E-I	Digital Marketing for Animation	02
		BAST 484 E-II	Typography for Animation	
5	Major Lab	BASP 485	Lab Based on BAST 481, BAST 482 & BAST 483	02
6	Elective Lab	BASP 486 E-I	Lab Based on BAST 484 E-I	02
		BASP 486 E-II	Lab Based on BAST 484 E-II	
7	OJT	BASTOJT 2	On Job Training in Animation Science II	04
Total				22
Award of Four year UG Honors Degree in Major and Minor with 176 credits.				

B. Sc. (Animation Science) Part-IV Honors with Research Degree

Semester VII				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BAST 471	Advanced Graphics Designing	04
2	Major	BAST 472	Modern Art	04
3	Electives	BAST 474 E - I	Elements of Animation Designs	04
		BAST 474 E - II	Animation Business Marketing	
4	Major Lab	BASP 475	Lab Based on BAST 471 & BAST 472	02
5	Minor	BAST 476	Research Methodology	04
6	RP	BASTRP 1	Research Project in Animation Science I	04
Total				22
Semester VIII				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BAST 481	Motion Graphics	04
2	Major	BAST 482	Advanced Blender Modelling and texturing	04
3	Electives	BAST 484 E - I	Digital Marketing for Animation	04
		BAST 484 E - II	Typography for Animation	
4	Major Lab	BASP 485	Lab Based on BAST 481 & BAST 482	02
5	RP	BASTRP 2	Research Project in Animation Science II	08
Total				22
Award of Four year UG Honors Degree in Major and Minor with 176 credits.				

Chairman
BoS in Animation Science

Secretary
Academic Council

Chairman
Academic Council