B.Voc. Animation & Film-Making Department

Content with local, regional, national & global needs (2018-19 to 2023-24)

Sr.	Name of the Course	Course Code	Year of Introduction	Content with relevance to local/ regional needs	Content with relevance to national needs	Content with relevance to Global needs
	B.Voc Animation & Film-Making Newly Introduced between 2018-19 and 2023-24					
1	Foundation of Art -I	DSC24AFM11	2018-19	CO1 Develop fundamental drawing and design skills to create visually appealing artwork using various mediums and techniques. CO2 Apply principles of color theory, composition, and perspective to effectively communicate artistic ideas and concepts. CO3 Analyse and interpret art forms from different periods and cultures, developing a critical eye and aesthetic sensibility. CO4 Experiment with artistic expression, exploring personal style and creativity through hands-on projects and collaborative exercises	CO1 Develop fundamental drawing and design skills to create visually appealing artwork using various mediums and techniques. CO2 Apply principles of color theory, composition, and perspective to effectively communicate artistic ideas and concepts. CO3 Analyse and interpret art forms from different periods and cultures, developing a critical eye and aesthetic sensibility. CO4 Experiment with artistic expression, exploring personal style and creativity through hands-on projects and collaborative exercises	CO1 Develop fundamental drawing and design skills to create visually appealing artwork using various mediums and techniques. CO2 Apply principles of color theory, composition, and perspective to effectively communicate artistic ideas and concepts. CO3 Analyse and interpret art forms from different periods and cultures, developing a critical eye and aesthetic sensibility. CO4 Experiment with artistic expression, exploring personal style and creativity through hands-on projects and collaborative exercises

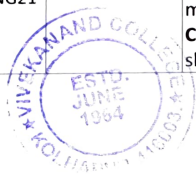| #	Course	Code	Year			
2	Digital Composition - I	MIN24AFM11	2020-21	CO1 Gain proficiency in using digital tools and software for image creation, editing, and manipulation. CO2 Create visually compelling digital compositions by employing techniques such as layering, masking, and blending. CO3 Apply principles of digital color theory to enhance mood, atmosphere, and visual impact in compositions. CO4 Integrate typography effectively to convey messages and enhance visual storytelling in digital compositions.	CO1 Gain proficiency in using digital tools and software for image creation, editing, and manipulation. CO2 Create visually compelling digital compositions by employing techniques such as layering, masking, and blending. CO3 Apply principles of digital color theory to enhance mood, atmosphere, and visual impact in compositions. CO4 Integrate typography effectively to convey messages and enhance visual storytelling in digital compositions.	CO1 Gain proficiency in using digital tools and software for image creation, editing, and manipulation. CO2 Create visually compelling digital compositions by employing techniques such as layering, masking, and blending. CO3 Apply principles of digital color theory to enhance mood, atmosphere, and visual impact in compositions. CO4 Integrate typography effectively to convey messages and enhance visual storytelling in digital compositions.
3	Basic Computer Knowledge-I	OEC24AFM11	2023-24	CO1 Computer Literacy: Students will demonstrate a fundamental understanding of computer hardware, software, and basic terminology, enabling them to navigate and use computer systems effectively. CO2 Operating System Proficiency: Develop proficiency in using common operating systems (e.g., Windows, macOS, or Linux) to perform essential tasks, manage files, and customize system settings. CO3 Productivity Software Skills: Acquire skills in using office productivity software (e.g., Microsoft Office or Google Workspace) to create and edit documents, spreadsheets, and presentations for business and academic purposes.	CO1 Computer Literacy: Students will demonstrate a fundamental understanding of computer hardware, software, and basic terminology, enabling them to navigate and use computer systems effectively. CO2 Operating System Proficiency: Develop proficiency in using common operating systems (e.g., Windows, macOS, or Linux) to perform essential tasks, manage files, and customize system settings. CO3 Productivity Software Skills: Acquire skills in using office productivity software (e.g., Microsoft Office or Google Workspace) to create and edit documents, spreadsheets, and presentations for business and academic purposes.	CO1 Computer Literacy: Students will demonstrate a fundamental understanding of computer hardware, software, and basic terminology, enabling them to navigate and use computer systems effectively. CO2 Operating System Proficiency: Develop proficiency in using common operating systems (e.g., Windows, macOS, or Linux) to perform essential tasks, manage files, and customize system settings. CO3 Productivity Software Skills: Acquire skills in using office productivity software (e.g., Microsoft Office or Google Workspace) to create and edit documents, spreadsheets, and presentations for business and academic purposes.

4	English For Business Communication-I	AEC24ENG11	2018-19	**CO1** Develop effective written and oral communication skills for professional settings, including emails, reports, and presentations. **CO2** Demonstrate proficiency in business vocabulary, grammar, and conventions to ensure clear and concise communication. **CO3** Understand and apply intercultural communication strategies to effectively interact in a global business environment. **CO4** Use appropriate communication etiquette and professionalism in business-related interactions, negotiations, and networking.	**CO1** Develop effective written and oral communication skills for professional settings, including emails, reports, and presentations. **CO2** Demonstrate proficiency in business vocabulary, grammar, and conventions to ensure clear and concise communication. **CO3** Understand and apply intercultural communication strategies to effectively interact in a global business environment. **CO4** Use appropriate communication etiquette and professionalism in business-related interactions, negotiations, and networking.	**CO1** Develop effective written and oral communication skills for professional settings, including emails, reports, and presentations. **CO2** Demonstrate proficiency in business vocabulary, grammar, and conventions to ensure clear and concise communication. **CO3** Understand and apply intercultural communication strategies to effectively interact in a global business environment. **CO4** Use appropriate communication etiquette and professionalism in business-related interactions, negotiations, and networking.
5	History of Animation (Online)	IKS24AFM11	2018-19	CO1 Identify and analyse key historical developments, pioneers, and significant milestones in the evolution of animation as an art form. CO2 Understand and differentiate various animation techniques, styles, and genres across different eras and cultures. CO3 Explore the cultural, social, and technological influences on the development of animation throughout history. CO4 Develop a critical understanding of the impact and significance of	CO1 Identify and analyse key historical developments, pioneers, and significant milestones in the evolution of animation as an art form. CO2 Understand and differentiate various animation techniques, styles, and genres across different eras and cultures. CO3 Explore the cultural, social, and technological influences on the development of animation throughout history. CO4 Develop a critical understanding of the impact and significance of	CO1 Identify and analyse key historical developments, pioneers, and significant milestones in the evolution of animation as an art form. CO2 Understand and differentiate various animation techniques, styles, and genres across different eras and cultures. CO3 Explore the cultural, social, and technological influences on the development of animation throughout history. CO4 Develop a critical understanding of the impact and significance of

				animated works in popular culture, entertainment, and media.	animated works in popular culture, entertainment, and media.	animated works in popular culture, entertainment, and media.
6	Foundation of Art -II	DSC24AFM21	2018-19	CO1 Expand upon the skills learned in Foundation of Art - I to create more complex and visually compelling artworks. CO2 Develop a deeper understanding of artistic concepts, techniques, and theories to inform artistic decision-making. CO3 Experiment with different art styles and explore the integration of traditional and digital mediums in artwork creation. CO4 Apply critical analysis and self-reflection to evaluate and refine personal artistic style and creative expression.	CO1 Expand upon the skills learned in Foundation of Art - I to create more complex and visually compelling artworks. CO2 Develop a deeper understanding of artistic concepts, techniques, and theories to inform artistic decision-making. CO3 Experiment with different art styles and explore the integration of traditional and digital mediums in artwork creation. CO4 Apply critical analysis and self-reflection to evaluate and refine personal artistic style and creative expression.	CO1 Expand upon the skills learned in Foundation of Art - I to create more complex and visually compelling artworks. CO2 Develop a deeper understanding of artistic concepts, techniques, and theories to inform artistic decision-making. CO3 Experiment with different art styles and explore the integration of traditional and digital mediums in artwork creation. CO4 Apply critical analysis and self-reflection to evaluate and refine personal artistic style and creative expression.
7	Digital Composition - II	MIN24AFM21	2020-21	CO1 Utilize advanced digital image manipulation techniques to create visually captivating and conceptually rich compositions. CO2 Explore advanced color grading and color correction techniques to enhance the visual impact and storytelling in digital compositions. CO3 Integrate 3D elements and digital effects seamlessly into compositions, employing techniques such as matte painting and compositing. CO4 Develop a personal artistic style in digital composition, combining technical proficiency with creative experimentation and innovation.	CO1 Utilize advanced digital image manipulation techniques to create visually captivating and conceptually rich compositions. CO2 Explore advanced color grading and color correction techniques to enhance the visual impact and storytelling in digital compositions. CO3 Integrate 3D elements and digital effects seamlessly into compositions, employing techniques such as matte painting and compositing. CO4 Develop a personal artistic style in digital composition, combining	CO1 Utilize advanced digital image manipulation techniques to create visually captivating and conceptually rich compositions. CO2 Explore advanced color grading and color correction techniques to enhance the visual impact and storytelling in digital compositions. CO3 Integrate 3D elements and digital effects seamlessly into compositions, employing techniques such as matte painting and compositing. CO4 Develop a personal artistic style in digital composition, combining

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				technical proficiency with creative experimentation and innovation.	technical proficiency with creative experimentation and innovation.	
8	Basic Computer Knowledge-II	OEC24AFM21	2023-24	**CO1** Internet Navigation and Research: Demonstrate the ability to navigate the internet effectively, conduct online research, and critically evaluate information from various online sources. **CO2** Basic Programming Concepts: Introduce students to basic programming concepts, such as algorithms, variables, and control structures, to foster an understanding of how software works and its role in problem-solving. **CO3** Cybersecurity Awareness: Raise awareness about cybersecurity risks and best practices, including safe online behaviour, password management, and recognizing and avoiding common online threats. **CO4** Data Management and Privacy: Understand the basics of data management, including file organization, data storage, and privacy considerations when using digital tools and services.	**CO1** Internet Navigation and Research: Demonstrate the ability to navigate the internet effectively, conduct online research, and critically evaluate information from various online sources. **CO2** Basic Programming Concepts: Introduce students to basic programming concepts, such as algorithms, variables, and control structures, to foster an understanding of how software works and its role in problem-solving. **CO3** Cybersecurity Awareness: Raise awareness about cybersecurity risks and best practices, including safe online behaviour, password management, and recognizing and avoiding common online threats. **CO4** Data Management and Privacy: Understand the basics of data management, including file organization, data storage, and privacy considerations when using digital tools and services.	**CO1** Internet Navigation and Research: Demonstrate the ability to navigate the internet effectively, conduct online research, and critically evaluate information from various online sources. **CO2** Basic Programming Concepts: Introduce students to basic programming concepts, such as algorithms, variables, and control structures, to foster an understanding of how software works and its role in problem-solving. **CO3** Cybersecurity Awareness: Raise awareness about cybersecurity risks and best practices, including safe online behaviour, password management, and recognizing and avoiding common online threats. **CO4** Data Management and Privacy: Understand the basics of data management, including file organization, data storage, and privacy considerations when using digital tools and services.
9	English For Business Communication-II	AEC24ENG21	2018-19	**CO1** Enhance business writing skills to create persuasive and well-structured documents, proposals, and marketing materials. **CO2** Develop effective presentation skills, including the ability to deliver	**CO1** Enhance business writing skills to create persuasive and well-structured documents, proposals, and marketing materials. **CO2** Develop effective presentation skills, including the ability to deliver	**CO1** Enhance business writing skills to create persuasive and well-structured documents, proposals, and marketing materials. **CO2** Develop effective presentation skills, including the ability to deliver

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				engaging speeches, pitches, and multimedia presentations. **CO3** Apply advanced business vocabulary and language conventions to communicate with clarity, precision, and professionalism. **CO4** Demonstrate cultural sensitivity and adapt communication strategies to diverse international business contexts, fostering effective cross-cultural communication.	engaging speeches, pitches, and multimedia presentations. **CO3** Apply advanced business vocabulary and language conventions to communicate with clarity, precision, and professionalism. **CO4** Demonstrate cultural sensitivity and adapt communication strategies to diverse international business contexts, fostering effective cross-cultural communication.	engaging speeches, pitches, and multimedia presentations. **CO3** Apply advanced business vocabulary and language conventions to communicate with clarity, precision, and professionalism. **CO4** Demonstrate cultural sensitivity and adapt communication strategies to diverse international business contexts, fostering effective cross-cultural communication.
10	Color Theory	SEC24AFM21	2018-19	CO1 Recognize color as a quality in the physical world, including natural phenomena. Be able to describe a variety of uses of color CO2 Distinguish principles of subtractive and additive color phenomena CO3 Apply color principles to 2 and 3 Dimensional design problems CO4 Study of the additive and subtractive principles of color theory as they apply to the visual communication design process.	CO1 Recognize color as a quality in the physical world, including natural phenomena. Be able to describe a variety of uses of color CO2 Distinguish principles of subtractive and additive color phenomena CO3 Apply color principles to 2 and 3 Dimensional design problems CO4 Study of the additive and subtractive principles of color theory as they apply to the visual communication design process.	CO1 Recognize color as a quality in the physical world, including natural phenomena. Be able to describe a variety of uses of color CO2 Distinguish principles of subtractive and additive color phenomena CO3 Apply color principles to 2 and 3 Dimensional design problems CO4 Study of the additive and subtractive principles of color theory as they apply to the visual communication design process.
11	Character Design & Props	DSC24AFM31	2019-20	**CO1** Create unique and visually appealing character designs and props that effectively communicate personality, story, and function. **CO2** Apply principles of anatomy, proportion, and stylization to develop believable and expressive character designs.	**CO1** Create unique and visually appealing character designs and props that effectively communicate personality, story, and function. **CO2** Apply principles of anatomy, proportion, and stylization to develop believable and expressive character designs.	**CO1** Create unique and visually appealing character designs and props that effectively communicate personality, story, and function. **CO2** Apply principles of anatomy, proportion, and stylization to develop believable and expressive character designs.

				CO3 Utilize research and reference materials to inform and enhance the design process, ensuring authenticity and creativity. CO4 Demonstrate proficiency in translating character designs and props into 3D models, considering technical and aesthetic aspects.	CO3 Utilize research and reference materials to inform and enhance the design process, ensuring authenticity and creativity. CO4 Demonstrate proficiency in translating character designs and props into 3D models, considering technical and aesthetic aspects.	CO3 Utilize research and reference materials to inform and enhance the design process, ensuring authenticity and creativity. CO4 Demonstrate proficiency in translating character designs and props into 3D models, considering technical and aesthetic aspects.
12	Script Writing & Story Boarding	DSC24AFM32	2019-20	CO1 Craft engaging narratives and develop well-structured scripts suitable for animation and other visual storytelling mediums. CO2 Create effective storyboards that visually communicate the narrative, shot compositions, and pacing of an animated sequence. CO3 Apply storytelling techniques, such as plot development, character arcs, and conflict resolution, to create compelling stories. CO4 Collaborate with others in the production pipeline to ensure cohesive storytelling and seamless integration of visuals and narrative.	CO1 Craft engaging narratives and develop well-structured scripts suitable for animation and other visual storytelling mediums. CO2 Create effective storyboards that visually communicate the narrative, shot compositions, and pacing of an animated sequence. CO3 Apply storytelling techniques, such as plot development, character arcs, and conflict resolution, to create compelling stories. CO4 Collaborate with others in the production pipeline to ensure cohesive storytelling and seamless integration of visuals and narrative.	CO1 Craft engaging narratives and develop well-structured scripts suitable for animation and other visual storytelling mediums. CO2 Create effective storyboards that visually communicate the narrative, shot compositions, and pacing of an animated sequence. CO3 Apply storytelling techniques, such as plot development, character arcs, and conflict resolution, to create compelling stories. CO4 Collaborate with others in the production pipeline to ensure cohesive storytelling and seamless integration of visuals and narrative.
13	E-Learning & social media	MIN24AFM31	2019-20	CO1 Design and develop interactive and engaging e-learning materials using multimedia elements and animation techniques. CO2 Utilize social media platforms effectively to promote and distribute animated content, building an online presence and engaging with audiences.	CO1 Design and develop interactive and engaging e-learning materials using multimedia elements and animation techniques. CO2 Utilize social media platforms effectively to promote and distribute animated content, building an online presence and engaging with audiences.	CO1 Design and develop interactive and engaging e-learning materials using multimedia elements and animation techniques. CO2 Utilize social media platforms effectively to promote and distribute animated content, building an online presence and engaging with audiences.

				CO3 Apply instructional design principles to create effective learning experiences through the integration of animation and multimedia elements. **CO4** Stay updated on emerging trends in e-learning and social media to leverage new technologies and opportunities for animated content creation.	**CO3** Apply instructional design principles to create effective learning experiences through the integration of animation and multimedia elements. **CO4** Stay updated on emerging trends in e-learning and social media to leverage new technologies and opportunities for animated content creation.	**CO3** Apply instructional design principles to create effective learning experiences through the integration of animation and multimedia elements. **CO4** Stay updated on emerging trends in e-learning and social media to leverage new technologies and opportunities for animated content creation.
14	English For Business Communication-III	AEC24ENG31	2023-24	**CO1** Effective Written Communication: Students will be able to compose clear, concise, and professional business documents, including emails, memos, and reports **CO2** Oral Communication Skills: Develop and demonstrate effective oral communication skills for business settings, including the ability to articulate ideas clearly, present information persuasively, and engage in professional conversations. **CO3** Interpersonal Communication in the Workplace: Understand and apply effective interpersonal communication strategies within a business context, fostering positive relationships with colleagues, clients, and superiors. **CO4** Cross-Cultural Communication Competence: Demonstrate an understanding of cultural nuances in communication and develop the ability to communicate effectively with	**CO1** Effective Written Communication: Students will be able to compose clear, concise, and professional business documents, including emails, memos, and reports. **CO2** Oral Communication Skills: Develop and demonstrate effective oral communication skills for business settings, including the ability to articulate ideas clearly, present information persuasively, and engage in professional conversations. **CO3** Interpersonal Communication in the Workplace: Understand and apply effective interpersonal communication strategies within a business context, fostering positive relationships with colleagues, clients, and superiors. **CO4** Cross-Cultural Communication Competence: Demonstrate an understanding of cultural nuances in communication and develop the	**CO1** Effective Written Communication: Students will be able to compose clear, concise, and professional business documents, including emails, memos, and reports. **CO2** Oral Communication Skills: Develop and demonstrate effective oral communication skills for business settings, including the ability to articulate ideas clearly, present information persuasively, and engage in professional conversations. **CO3** Interpersonal Communication in the Workplace: Understand and apply effective interpersonal communication strategies within a business context, fostering positive relationships with colleagues, clients, and superiors. **CO4** Cross-Cultural Communication Competence: Demonstrate an understanding of cultural nuances in communication and develop the

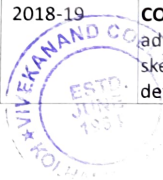|						
				diverse audiences in a global business environment.	ability to communicate effectively with diverse audiences in a global business environment.	ability to communicate effectively with diverse audiences in a global business environment.
15	3D Modelling	DSC24AFM41	2018-19	**CO1**: Develop proficiency in creating accurate and detailed 3D models of objects, characters, and environments. **CO2**: Apply principles of topology, anatomy, and composition to produce optimized and visually appealing 3D models. **CO3**: Utilize texturing techniques to enhance the surface appearance, materials, and details of 3D models. **CO4**: Utilize texturing techniques to enhance the surface appearance, materials, and details of 3D models.	**CO1**: Develop proficiency in creating accurate and detailed 3D models of objects, characters, and environments. **CO2**: Apply principles of topology, anatomy, and composition to produce optimized and visually appealing 3D models. **CO3**: Utilize texturing techniques to enhance the surface appearance, materials, and details of 3D models. **CO4**: Utilize texturing techniques to enhance the surface appearance, materials, and details of 3D models.	**CO1**: Develop proficiency in creating accurate and detailed 3D models of objects, characters, and environments. **CO2**: Apply principles of topology, anatomy, and composition to produce optimized and visually appealing 3D models. **CO3**: Utilize texturing techniques to enhance the surface appearance, materials, and details of 3D models. **CO4**: Utilize texturing techniques to enhance the surface appearance, materials, and details of 3D models.
16	3D Lighting	DSC24AFM42	2018-19	**CO1**: Understand the principles of lighting and its role in creating mood, atmosphere, and realism in 3D scenes. **CO2**: Apply lighting techniques and tools to effectively illuminate 3D models, characters, and environments. **CO3**: Create convincing and visually appealing lighting setups that enhance the overall aesthetic and narrative of 3D scenes. **CO4**: Utilize advanced rendering techniques and software to achieve realistic and high-quality lighting effects in 3D projects.	**CO1**: Understand the principles of lighting and its role in creating mood, atmosphere, and realism in 3D scenes. **CO2**: Apply lighting techniques and tools to effectively illuminate 3D models, characters, and environments. **CO3**: Create convincing and visually appealing lighting setups that enhance the overall aesthetic and narrative of 3D scenes. **CO4**: Utilize advanced rendering techniques and software to achieve realistic and high-quality lighting effects in 3D projects.	**CO1**: Understand the principles of lighting and its role in creating mood, atmosphere, and realism in 3D scenes. **CO2**: Apply lighting techniques and tools to effectively illuminate 3D models, characters, and environments. **CO3**: Create convincing and visually appealing lighting setups that enhance the overall aesthetic and narrative of 3D scenes. **CO4**: Utilize advanced rendering techniques and software to achieve realistic and high-quality lighting effects in 3D projects.

17	2D Animation - I	MIN24AFM41	2023-24	**CO1**: Acquire a solid understanding of classical animation principles and techniques, including timing, spacing, and squash-and-stretch. **CO2**: Demonstrate proficiency in traditional hand-drawn animation through the creation of believable and expressive character movements. **CO3**: Apply storytelling and acting principles to effectively communicate emotions and narratives through animated sequences. **CO4**: Utilize industry-standard animation software and tools to digitize, refine, and enhance traditional hand-drawn animations.	**CO1**: Acquire a solid understanding of classical animation principles and techniques, including timing, spacing, and squash-and-stretch. **CO2**: Demonstrate proficiency in traditional hand-drawn animation through the creation of believable and expressive character movements. **CO3**: Apply storytelling and acting principles to effectively communicate emotions and narratives through animated sequences. **CO4**: Utilize industry-standard animation software and tools to digitize, refine, and enhance traditional hand-drawn animations.	**CO1**: Acquire a solid understanding of classical animation principles and techniques, including timing, spacing, and squash-and-stretch. **CO2**: Demonstrate proficiency in traditional hand-drawn animation through the creation of believable and expressive character movements. **CO3**: Apply storytelling and acting principles to effectively communicate emotions and narratives through animated sequences. **CO4**: Utilize industry-standard animation software and tools to digitize, refine, and enhance traditional hand-drawn animations.
18	English For Business Communication-IV	AEC24AFM41	2023-24	**CO1** Business Etiquette and Professionalism: Acquire knowledge of proper business etiquette and professional communication norms, including the use of appropriate language, tone, and behavior in various business situations. **CO2** Critical Thinking and Analytical Skills: Develop critical thinking skills to analyze business communication scenarios, identify key issues, and formulate effective communication strategies to address challenges and opportunities.	**CO1** Business Etiquette and Professionalism: Acquire knowledge of proper business etiquette and professional communication norms, including the use of appropriate language, tone, and behavior in various business situations. **CO2** Critical Thinking and Analytical Skills: Develop critical thinking skills to analyze business communication scenarios, identify key issues, and formulate effective communication strategies to address challenges and opportunities.	**CO1** Business Etiquette and Professionalism: Acquire knowledge of proper business etiquette and professional communication norms, including the use of appropriate language, tone, and behavior in various business situations. **CO2** Critical Thinking and Analytical Skills: Develop critical thinking skills to analyze business communication scenarios, identify key issues, and formulate effective communication strategies to address challenges and opportunities.

				CO3 Technological Proficiency in Communication Tools: Gain proficiency in using modern communication technologies and tools relevant to the business context, including email, video conferencing, and collaborative platforms. **CO4** Effective Team Communication: Collaborate effectively in team settings by applying communication skills to facilitate group discussions, resolve conflicts, and contribute meaningfully to team projects.	**CO3** Technological Proficiency in Communication Tools: Gain proficiency in using modern communication technologies and tools relevant to the business context, including email, video conferencing, and collaborative platforms. **CO4** Effective Team Communication: Collaborate effectively in team settings by applying communication skills to facilitate group discussions, resolve conflicts, and contribute meaningfully to team projects.	**CO3** Technological Proficiency in Communication Tools: Gain proficiency in using modern communication technologies and tools relevant to the business context, including email, video conferencing, and collaborative platforms. **CO4** Effective Team Communication: Collaborate effectively in team settings by applying communication skills to facilitate group discussions, resolve conflicts, and contribute meaningfully to team projects.
19	3D Dynamics	DSC24AFM51	2021-22	**CO1**: Understand the principles and tools used in simulating realistic physical behavior, such as gravity, collisions, and simulations. **CO2**: Create dynamic and interactive 3D simulations, such as cloth, fluids, rigid bodies, and particle systems. **CO3**: Apply advanced dynamics techniques to enhance the realism and believability of 3D animations and visual effects. **CO4**: Optimize and control simulations to achieve desired visual results, balancing realism, artistic intent, and technical constraints.	**CO1**: Understand the principles and tools used in simulating realistic physical behavior, such as gravity, collisions, and simulations. **CO2**: Create dynamic and interactive 3D simulations, such as cloth, fluids, rigid bodies, and particle systems. **CO3**: Apply advanced dynamics techniques to enhance the realism and believability of 3D animations and visual effects. **CO4**: Optimize and control simulations to achieve desired visual results, balancing realism, artistic intent, and technical constraints.	**CO1**: Understand the principles and tools used in simulating realistic physical behavior, such as gravity, collisions, and simulations. **CO2**: Create dynamic and interactive 3D simulations, such as cloth, fluids, rigid bodies, and particle systems. **CO3**: Apply advanced dynamics techniques to enhance the realism and believability of 3D animations and visual effects. **CO4**: Optimize and control simulations to achieve desired visual results, balancing realism, artistic intent, and technical constraints.
20	3D Rigging	DSC24AFM52	2018-19	**CO1**: Acquire in-depth knowledge of advanced rigging techniques, including skeletal structures, constraints, and deformations.	**CO1**: Acquire in-depth knowledge of advanced rigging techniques, including skeletal structures, constraints, and deformations.	**CO1**: Acquire in-depth knowledge of advanced rigging techniques, including skeletal structures, constraints, and deformations.

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				CO2: Create complex character rigs that enable realistic movement and expressive performances in 3D animation. **CO3**: Implement advanced rigging solutions for props, vehicles, and other objects, ensuring functionality and ease of animation control. **CO4**: Troubleshoot rigging issues and optimize rigs for efficient animation workflows, considering performance and production requirements.	**CO2**: Create complex character rigs that enable realistic movement and expressive performances in 3D animation. **CO3**: Implement advanced rigging solutions for props, vehicles, and other objects, ensuring functionality and ease of animation control. **CO4**: Troubleshoot rigging issues and optimize rigs for efficient animation workflows, considering performance and production requirements.	**CO2**: Create complex character rigs that enable realistic movement and expressive performances in 3D animation. **CO3**: Implement advanced rigging solutions for props, vehicles, and other objects, ensuring functionality and ease of animation control. **CO4**: Troubleshoot rigging issues and optimize rigs for efficient animation workflows, considering performance and production requirements.
21	Advanced VFX-I	DSC24AFM51	2023-24	**CO1**: Master advanced visual effects techniques, including particle systems, dynamics, simulations, and compositing. **CO2**: Create realistic and visually stunning visual effects sequences, seamlessly integrating them into live-action footage or 3D environments. **CO3**: Employ industry-standard software and tools to execute complex VFX projects, meeting professional quality standards. **CO4**: Demonstrate problem-solving skills and creative thinking in the development and execution of advanced VFX shots and sequences.	**CO1**: Master advanced visual effects techniques, including particle systems, dynamics, simulations, and compositing. **CO2**: Create realistic and visually stunning visual effects sequences, seamlessly integrating them into live-action footage or 3D environments. **CO3**: Employ industry-standard software and tools to execute complex VFX projects, meeting professional quality standards. **CO4**: Demonstrate problem-solving skills and creative thinking in the development and execution of advanced VFX shots and sequences.	**CO1**: Master advanced visual effects techniques, including particle systems, dynamics, simulations, and compositing. **CO2**: Create realistic and visually stunning visual effects sequences, seamlessly integrating them into live-action footage or 3D environments. **CO3**: Employ industry-standard software and tools to execute complex VFX projects, meeting professional quality standards. **CO4**: Demonstrate problem-solving skills and creative thinking in the development and execution of advanced VFX shots and sequences.
22	2D Animation - II	MIN24AFM51	2023-24	**CO1**: Create dynamic and visually appealing animations using industry-standard software and techniques. **CO2**: Apply principles of timing, spacing, and movement to bring	**CO1**: Create dynamic and visually appealing animations using industry-standard software and techniques. **CO2**: Apply principles of timing, spacing, and movement to bring	**CO1**: Create dynamic and visually appealing animations using industry-standard software and techniques. **CO2**: Apply principles of timing, spacing, and movement to bring

				characters and objects to life in digital animations. **CO3**: Implement advanced animation techniques such as rigging, keyframing, and character posing to enhance storytelling. **CO4**: Demonstrate proficiency in rendering and outputting high-quality digital animations for various platforms and purposes.	characters and objects to life in digital animations. **CO3**: Implement advanced animation techniques such as rigging, keyframing, and character posing to enhance storytelling. **CO4**: Demonstrate proficiency in rendering and outputting high-quality digital animations for various platforms and purposes.	characters and objects to life in digital animations. **CO3**: Implement advanced animation techniques such as rigging, keyframing, and character posing to enhance storytelling. **CO4**: Demonstrate proficiency in rendering and outputting high-quality digital animations for various platforms and purposes.
23	Compositing	DSC24AFM61	2023-24	**CO1**: Master advanced compositing techniques, including green screen keying, tracking, rotoscoping, and color grading. **CO2**: Seamlessly integrate multiple visual elements, such as live-action footage, CG renders, and visual effects, into cohesive final composites. **CO3**: Apply advanced color correction and grading techniques to achieve desired visual aesthetics and enhance storytelling. **CO4**: Demonstrate proficiency in utilizing industry-standard compositing software to deliver high-quality and visually compelling composites.	**CO1**: Master advanced compositing techniques, including green screen keying, tracking, rotoscoping, and color grading. **CO2**: Seamlessly integrate multiple visual elements, such as live-action footage, CG renders, and visual effects, into cohesive final composites. **CO3**: Apply advanced color correction and grading techniques to achieve desired visual aesthetics and enhance storytelling. **CO4**: Demonstrate proficiency in utilizing industry-standard compositing software to deliver high-quality and visually compelling composites.	**CO1**: Master advanced compositing techniques, including green screen keying, tracking, rotoscoping, and color grading. **CO2**: Seamlessly integrate multiple visual elements, such as live-action footage, CG renders, and visual effects, into cohesive final composites. **CO3**: Apply advanced color correction and grading techniques to achieve desired visual aesthetics and enhance storytelling. **CO4**: Demonstrate proficiency in utilizing industry-standard compositing software to deliver high-quality and visually compelling composites.
24	3D Animation	DSC24AFM62	2018-19	**CO1**: Demonstrate proficiency in creating realistic and dynamic 3D character animations, utilizing keyframe and motion capture techniques.	**CO1**: Demonstrate proficiency in creating realistic and dynamic 3D character animations, utilizing keyframe and motion capture techniques.	**CO1**: Demonstrate proficiency in creating realistic and dynamic 3D character animations, utilizing keyframe and motion capture techniques.

				CO2: Apply principles of timing, posing, and acting to bring 3D characters to life and convey believable performances. **CO3**: Develop an understanding of animation workflows, pipelines, and collaboration processes in 3D animation production. **CO4**: Employ storytelling techniques and narrative considerations to create engaging and emotionally resonant 3D animated sequences.	**CO2**: Apply principles of timing, posing, and acting to bring 3D characters to life and convey believable performances. **CO3**: Develop an understanding of animation workflows, pipelines, and collaboration processes in 3D animation production. **CO4**: Employ storytelling techniques and narrative considerations to create engaging and emotionally resonant 3D animated sequences.	**CO2**: Apply principles of timing, posing, and acting to bring 3D characters to life and convey believable performances. **CO3**: Develop an understanding of animation workflows, pipelines, and collaboration processes in 3D animation production. **CO4**: Employ storytelling techniques and narrative considerations to create engaging and emotionally resonant 3D animated sequences.
25	2D Animation - III	MIN24AFM61	2023-24	**CO1**: Develop foundational skills in traditional and digital 2D animation techniques, including hand-drawn and digital frame-by-frame animation. **CO2**: Create fluid and expressive character movements, conveying weight, personality, and emotions in 2D animations. **CO3**: Apply timing, spacing, and anticipation principles to enhance the impact and appeal of 2D animated sequences. **CO4**: Utilize industry-standard software and tools to digitize, refine, and enhance traditional 2D animations for professional output.	**CO1**: Develop foundational skills in traditional and digital 2D animation techniques, including hand-drawn and digital frame-by-frame animation. **CO2**: Create fluid and expressive character movements, conveying weight, personality, and emotions in 2D animations. **CO3**: Apply timing, spacing, and anticipation principles to enhance the impact and appeal of 2D animated sequences. **CO4**: Utilize industry-standard software and tools to digitize, refine, and enhance traditional 2D animations for professional output.	**CO1**: Develop foundational skills in traditional and digital 2D animation techniques, including hand-drawn and digital frame-by-frame animation. **CO2**: Create fluid and expressive character movements, conveying weight, personality, and emotions in 2D animations. **CO3**: Apply timing, spacing, and anticipation principles to enhance the impact and appeal of 2D animated sequences. **CO4**: Utilize industry-standard software and tools to digitize, refine, and enhance traditional 2D animations for professional output.
26	Advanced VFX-II	DSE24AFM61	2023-24	**CO1**: Explore principles of motion design to create visually engaging and dynamic animated graphics for various media platforms.	**CO1**: Explore principles of motion design to create visually engaging and dynamic animated graphics for various media platforms.	**CO1**: Explore principles of motion design to create visually engaging and dynamic animated graphics for various media platforms.

				CO2: Utilize industry-standard software and tools to design and animate typography, logos, and visual elements. CO3: Integrate motion graphics seamlessly into video productions, enhancing storytelling and visual communication. CO4: Apply motion design techniques, such as timing, pacing, and transitions, to create effective and impactful visual narratives.	CO2: Utilize industry-standard software and tools to design and animate typography, logos, and visual elements. CO3: Integrate motion graphics seamlessly into video productions, enhancing storytelling and visual communication. CO4: Apply motion design techniques, such as timing, pacing, and transitions, to create effective and impactful visual narratives.	CO2: Utilize industry-standard software and tools to design and animate typography, logos, and visual elements. CO3: Integrate motion graphics seamlessly into video productions, enhancing storytelling and visual communication. CO4: Apply motion design techniques, such as timing, pacing, and transitions, to create effective and impactful visual narratives.

VOC. ANIMATION & FILM-MAKING
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)