



Deccan Education Society's
Fergusson College (Autonomous), Pune
Program Specific Outcomes(PSOs) and Course Outcomes (COs) 2019-20
Department of Animation
Programme: B. Voc. Digital Art and Animation

PSO No.	Program Specific Outcomes(PSOs) Upon completion of this programme the student will be able to
PSO1	<p>Academic competence:</p> <p>(i) Build understanding for correct blend of Art & Technology instead of only technical tools</p> <p>(ii) Create competence in the fields of Computer Graphics assets creation, Visual Effects, Gaming and Graphic designing.</p> <p>(iii) Understand the ongoing changing trends and keep them updated with the latest technology.</p> <p>(iv) Produce creative and technical skills in various domains of Animation, Gaming, VFX and multimedia. This will enable them to be employed globally.</p>
PSO2	<p>Personal and Professional Competence:</p> <p>(i) Use critical thinking skills and problem-solving strategies for overall development of the professional growth in the fields like Animation, VFX, gaming, and graphics.</p> <p>(ii) Carry out industry orientated new technologies and new trends in animation, VFX & graphics.</p> <p>(iii) Create ample opportunities to work effectively to emerge as an acceptable team leader by working on team projects & assignments.</p>
PSO3	<p>Research Competence:</p> <p>(i) Apply technical knowledge and methodologies from animation softwares in order to conduct research and demonstrate appropriate skill to seek solutions to problems that emerge in various fields of 3d animation & VFX simulations.</p> <p>(ii) Review relevant literature and can develop a hypothesis and conduct methodical research on any topic related to Animation.</p>
PSO4	<p>Entrepreneurial and Social competence:</p> <p>(i) Break down course with 3 exit points gives this course more entrepreneurial options compared with regular graduation degrees.</p> <p>(ii) Develop Entrepreneurial capabilities considering animation industry works mainly on freelancing and individual creativity.</p> <p>(iii) Build adequate knowledge, skill, dedication and work ethics required for accomplishment of the assigned task and strengthen social competency skills.</p> <p>(iv) Able to demonstrate their acquired knowledge for the growth of social and ethical values in outdoor activities, such as service learning, internships and field work.</p> <p>(v) Maintain and develop ethics of Media, Animation & Gaming Industry as these industries plays vital role in today's generations</p>

F.Y. B. Voc. Semester I		
Title of the Course and Course Code	Basics of Animation (BVA1101)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Describe the evolution of animation and its history.	1
CO2	Discuss the art of movement and analyze creative work of artist.	2
CO3	Examine various processes of animation techniques that are developed with various equipments.	3
CO4	Compare and contrast various traditional animation techniques.	4
CO5	Determine various animation techniques with basic principles of animation.	5
CO6	Build various optical toys and animations before films.	6
LANGUAGE SKILLS BVA1102		
Title of the Course and Course Code	LANGUAGE SKILLS BVA1102	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	State importance of language in communication & journey of language.	1
CO2	Explain varied forms of applied formal writing.	2
CO3	Illustrate proofreading skills to eliminate linguistic barriers.	3
CO4	Compare written communication as an important form of communication.	4
CO5	Evaluate common errors in English language.	5
CO6	Prepare to interact with formal correspondence.	6
Photography BVA1103		
Title of the Course and Course Code	Photography BVA1103	Number of Credits : 03
Course Outcomes(Cos)		Bloom's Cognitive level
On completion of the course, the students will be able to:		
CO1	Recall history of Photography	1
CO2	Explain camera functioning	2
CO3	Operate camera and its accessories	3
CO4	Compare lighting techniques and types of lenses	4
CO5	Review color theory	5
CO6	Generate photographs using the given techniques	6

Title of the Course and Course Code	FOUNDATION ART (BVA1104)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall the basics of drawing and material handling.	1
CO2	Illustrate the importance of elements of designs	2
CO3	Demonstrate the usage of positive and negative space in a design composition.	3
CO4	Identify, analyze color theory and color harmony in drawing and sketching.	4
CO5	Review different type of art forms.	5
CO6	Create backgrounds and compositions with the help of color theory and color harmony.	6
Title of the Course and Course Code	CHARACTER DESIGN (BVA1105)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall the basics of drawing and sketching	1
CO2	Illustrate the importance of character designing	2
CO3	Demonstrate the usage of expressions in character design	3
CO4	Identify, analyze types of characters and their styles	4
CO5	Review different type of concept arts in context of characters	5
CO6	Create Character Bible, Model Sheets for a newly designed character	6
Title of the Course and Course Code	CELL ANIMATION (BVA1106)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Describe the Principles of Animation for creation of cell animations.	1
CO2	Explain various principles of animation with the help of traditional methods.	2
CO3	Analyze basic animation movements for characters or objects.	3
CO4	Apply action analysis and observations to animated drawings.	4

CO5	Determine critical thinking skills elemental to the problem solving of design and the visual arts.	5
CO6	Create drawings that represent actions and emotions.	6
F.Y. B. Voc. Semester II		
Title of the Course and Course Code	Visual Communication (BVA1201)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Describe basics of Communication.	1
CO2	Explain theory of Visual Communication.	2
CO3	Apply rules of communication theory.	3
CO4	Analyze various camera angles and shots.	4
CO5	Determine the importance of visuals in media.	5
CO6	Create a design or storyboards for the films.	6
F.Y. B. Voc. Semester II		
Title of the Course and Course Code	STOP MOTION ANIMATION (BVA1202)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Describe the working of stop motion industry.	1
CO2	Illustrate, create and handle materials for clay modelling and cut out animation.	2
CO3	Classify armature and miniature modelling.	3
CO4	Differentiate techniques between cut-out animation and clay-mation.	4
CO5	Review the techniques of tool handling.	5
CO6	Create an animated clip by using the cut out and clay animation techniques.	6

Title of the Course and Course Code	DIGITAL FILM PRODUCTION (BVA1203)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall basics of Camera	1
CO2	Explain lighting & cinematography techniques	2
CO3	Execute video shoots with lighting setups	3
CO4	Compare different cameras with lenses	4
CO5	Review post production techniques & stages	5
CO6	Compose video footages to create final outputs	6
Title of the Course and Course Code	ADVANCE FOUNDATION ART (BVA1204)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall the basics of drawing and sketching	1
CO2	Illustrate the importance of color theory	2
CO3	Demonstrate the usage of 1-2 point perspective in drawing	3
CO4	Identify, analyze color theory and color harmony in drawing and sketching.	4
CO5	Review different type of art forms.	5
CO6	Create backgrounds, compositions and storyboards with the help of color theory and color harmony.	6
Title of the Course and Course Code	VECTOR DESIGN (ILLUSTRATOR) (BVA1205)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall theoretical knowledge of print and digital media.	1
CO2	Explain various concepts of digital art.	2
CO3	Illustrate the usage of various tools for vector graphic software.	3
CO4	Identify various points of vector design styles & raster designing	4

CO5	Compare Concept Art and Fantasy Art while converting from paper to digital format.	5
CO6	Create art related to print media and vector based using digital platforms.	6
Title of the Course and Course Code	DIGITAL ART (PHOTOSHOP) (BVA1206)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall theoretical knowledge of print and digital media.	1
CO2	Explain various concepts of digital art.	2
CO3	Illustrate the usage of various tools for graphic software.	3
CO4	Identify various points of switching from hand drawings to digital platforms.	4
CO5	Compare Concept Art and Fantasy Art while converting from paper to digital format.	5
CO6	Create background for 2d animation, texturing for 3d animation using digital platforms.	6
S.Y. B. Voc. Semester III		
Title of the Course and Course Code	Script Writing (BVA2301)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define importance of script in the process of pre-production.	1
CO2	Differentiate Character and Plot driven scripts.	2
CO3	Apply visual treatment to a script.	3
CO4	Analyze various script formats and their style.	4
CO5	Evaluate different script format and their style.	5
CO6	Write different genre of scripts.	6

Title of the Course and Course Code	Digital 2D Animation (BVA2302)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall principles of animation.	1
CO2	Differentiate tools used for 2d animation.	2
CO3	Carry out projects based on 2d Animations.	3
CO4	Compare various tools used in Animate software.	4
CO5	Consider 12 principals of animation while making the 2d animations.	5
CO6	Create 2D characters and environments.	6
Title of the Course and Course Code	3D Modeling, Texturing and Rendering (BVA2303)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall 3d Animation techniques and concepts.	1
CO2	Illustrate tools used for 3d modelling & texturing.	2
CO3	Demonstrate different types of modelling.	3
CO4	Compare modelling topologies.	4
CO5	Review different types of shaders and materials.	5
CO6	Design various textured 3d models & get final renders.	6
Title of the Course and Course Code	Practical in Digital 2D Animation (BVA2304)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall principles of animation.	1
CO2	Differentiate tools used for 2d animation.	2
CO3	Carry out projects based on 2d Animations.	3
CO4	Compare various tools used in Animate software.	4
CO5	Consider 12 principals of animation while making the 2d animations.	5
CO6	Create 2D characters and environments.	6

Title of the Course and Course Code	Practical in Production Process II (BVA2305)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Outline pre-production process for animated films.	1
CO2	Discuss the storyboarding techniques and animatics.	2
CO3	Demonstrate details of character designing.	3
CO4	Compare various characters aspects in detail.	4
CO5	Review Story-Boards for animation.	5
CO6	Create concept art for animated film and a Character design from real life.	6
Title of the Course and Course Code	Practical in 3D Modeling and Texturing (BVA2306)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall 3d Animation techniques and concepts.	1
CO2	Discuss tools used for 3d basics.	2
CO3	Demonstrate different types of modelling.	3
CO4	Compare modelling topologies.	4
CO5	Consider types of shaders and materials.	5
CO6	Design various textured 3d models to get final renders.	6

S.Y. B. Voc. Semester IV

S.Y. B. Voc. Semester IV		
Title of the Course and Course Code	Web Design (BVA2401)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define concepts of web technology.	1
CO2	Explain web technologies and the issues involved in web designing.	2
CO3	Execute scripts of HTML, Java script, CSS, Dreamweaver, SST.	3
CO4	Compare various options to design a web page.	4
CO5	Rewrite technical programs.	5
CO6	Reconstruct and design a new web page.	6
S.Y. B. Voc. Semester IV		
Title of the Course and Course Code	3D Rigging and Animation (BVA2402)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall 3d Animation techniques.	1
CO2	Discuss advanced 3d animation terms.	2
CO3	Illustrate different Rig setups & types of simulations and compare them.	3
CO4	Analyze terms of physics which are incorporated in 3d simulations.	4
CO5	Determine suitable results for the simulations and rig models.	5
CO6	Assemble rigs for 3d models to create character animations.	6

Title of the Course and Course Code	Motion Graphics and Compositing (BVA2403)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall history & utility of motion graphics.	1
CO2	Compare various tools of motion graphics	2
CO3	Execute various compositing techniques.	3
CO4	Identify appropriate tools required for motion graphics specific projects.	4
CO5	Determine motion graphics examples based on target audience	5
CO6	Create motion graphic videos.	6
Title of the Course and Course Code	Practical in Sculpting (BVA2404)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define use of sculpting in Animation Industry.	1
CO2	Explain interface of Mudbox.	2
CO3	Demonstrate sculpting techniques in the software.	3
CO4	Compare various tools used in mudbox for sculpting the 3d models.	4
CO5	Review other production-level texture painting programs.	5
CO6	Build high definition, detailed 3d models in Mudbox.	6
Title of the Course and Course Code	Practical in 3D Rigging and Animation and Lighting. (BVA2405)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall rigging & simulation techniques.	1
CO2	Discuss advanced 3d animation terms.	2
CO3	Outline and compare different Rig setups & types of simulations.	3
CO4	Analyze terms of physics which are incorporated in 3d simulations.	4

CO5	Determine suitable results for the simulations and rig models.	5
CO6	Assemble rigs for 3d models to create character animations.	6
Title of the Course and Course Code	Practical in 3D Rigging and Animation and Lighting. (BVA2405)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall rigging & simulation techniques.	1
CO2	Discuss advanced 3d animation terms.	2
CO3	Outline and compare different Rig setups & types of simulations.	3
CO4	Analyze terms of physics which are incorporated in 3d simulations.	4
CO5	Determine suitable results for the simulations and rig models.	5
CO6	Assemble rigs for 3d models to create character animations.	6
Title of the Course and Course Code	Practical in Motion Graphics and Compositing (BVA2406)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall history & utility of motion graphics.	1
CO2	Compare various tools of motion graphics.	2
CO3	Execute various compositing techniques.	3
CO4	Identify appropriate tools required for motion graphics specific projects.	4
CO5	Determine motion graphics examples based on target audience.	5
CO6	Create motion graphic videos.	6

T. Y. B. Voc. Semester V

T. Y. B. Voc. Semester V		
Title of the Course and Course Code	Game Design (BVA3501)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Describe gaming industry and its pipeline	1
CO2	Explain tools of Unity game engine	2
CO3	Carry out Production & post production of the game project.	3
CO4	Compare different game engines	4
CO5	Review Production & post production of games	5
CO6	Build a complete 3d and 2d game	6
Title of the Course and Course Code	Blender (BVA3502)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall 3d concepts	1
CO2	Discuss & Differentiate various tools used for 3d modeling in Blender	2
CO3	Execute modeling and texturing techniques for blender	3
CO4	Compare blender techniques for gaming	4
CO5	Review blender as open source software	5
CO6	Create 3d models and textures	6
Title of the Course and Course Code	Introduction to Python (BVA3503)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define the syntax for python programming.	1
CO2	Discuss data types and operators	2
CO3	Demonstrate control structure	3
CO4	Explain types of functions	4

CO5	Determine different operation on array	5
CO6	Compose various programs	6
Title of the Course and Course Code	GAME PRODUCTION (BVA3511)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Outline UNITY software for game.	1
CO2	Explain tools of Unity game engine.	2
CO3	Carry out Production & post production of the game project.	3
CO4	Compare different game engines.	4
CO5	Review Production & post production of games.	5
CO6	Build a complete 3d and 2d game.	6
Title of the Course and Course Code	PRACTICAL IN BLENDER (BVA3512)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall 3d concepts	1
CO2	Discuss & Differentiate various tools used for 3d animation & dynamics in Blender	2
CO3	Execute animation, and lighting techniques for blender	3
CO4	Compare blender techniques for dynamics	4
CO5	Review blender as open source software	5
CO6	Create 3d setups with lighting and animations	6
Title of the Course and Course Code	PHOTOGRAPHY - 01 (BVA3513)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall history of Photography	1
CO2	Explain camera functioning	2
CO3	Operate camera and its accessories	3

CO4	Compare lighting techniques and types of lenses	4
CO5	Review colour theory	5
CO6	Generate photographs using the given techniques	6
Title of the Course and Course Code	VFX - I (BVA3601)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define Concept & terminology of Visual Effects.	1
CO2	Explain various tools of VFX industry.	2
CO3	Demonstrate concepts of Compositing.	3
CO4	Differentiate node based and layer based compositing softwares.	4
CO5	Compare the techniques of layer based software with the node based.	5
CO6	Compile methods of VFX for live action & Animation Films.	6
Title of the Course and Course Code	IPR & Cyber Securities (BVA3602)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define Intellectual Property Rights.	1
CO2	Discuss process of registration of Intellectual Property	2
CO3	Demonstrate terms related to computer networks.	3
CO4	Explain information security and its principles.	4
CO5	Appraise security threats.	5
CO6	Specify security management.	6
Title of the Course and Course Code	DIGITAL EDITING - (BVA3603)	Number of Credits : 04
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define terminology and concepts of Digital editing.	1
CO2	Classify principles of video production.	2

CO3	Apply compression schemes for various output.	3
CO4	Analyze Film sequences from editing point of view.	4
CO5	Compare various cuts used for video editing.	5
CO6	Produce Digital editing examples within the limits of premiere-pro.	6
Title of the Course and Course Code	VFX II - (BVA3611)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define Concept & terminology of Visual Effects.	1
CO2	Explain various tools of VFX industry	2
CO3	Demonstrate concepts of Compositing	3
CO4	Differentiate node based and layer based compositing softwares.	4
CO5	Compare the techniques of layer based software with the node based	5
CO6	Compile methods of VFX for live action & Animation Films	6
Title of the Course and Course Code	PHOTOGRAPHY II - (BVA3612)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall basics of Camera	1
CO2	Explain lighting & cinematography techniques	2
CO3	Execute video shoots with lighting setups	3
CO4	Compare different cameras with lenses	4
CO5	Review post production techniques & stages	5
CO6	Compose video footages to create final outputs	6

Title of the Course and Course Code	PROJECT - (BVA3613)	Number of Credits : 06
On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Recall pre production concepts	1
CO2	Articulate for the individual project	2
CO3	Carry out research for the projects	3
CO4	Break down process for the respective pipelines	4
CO5	Review individual pre production process	5
CO6	Build pre production document	6