Study & Evaluation Scheme of

Bachelor of Science in Animation & Vfx

[Applicable for Batch 2019-22]

[As per CBCS guidelines given by UGC]



Approved in BOS	Approved in BOF	Approved in Academic Council
03/30/2019	06/26/2019	07/13/2019

Quantum University, Roorkee

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Study & Evaluation Scheme Study Summary

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Name of the Faculty	Faculty of Media Studies & Design
Name of the School	Quantum School of Media Studies & Design
Name of the Department	Department of Media Studies & design
Program Name	Bachelor of Science in Animation & Vfx
Duration	3 Years
Medium	English

Evaluation Scheme

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Internal Evaluation	End Semester Evaluation	Total (%)						
(%)	(%)	(/						
40	60	100						
40	60	100						
on Components	(Theory Papers)							
	50 Marks							
	50 Marks							
	25 Marks							
	25 Marks							
	50 Marks							
n Components (Practical Papers)							
	25 Marks							
	25 Marks							
	25 Marks							
	75 Marks							
50 Marks								
End Semester Evaluation (Practical Papers)								
30 Marks								
50 Marks								
	20 Marks							
	Internal Evaluation (%) 40 40 on Components n Components (Internal Evaluation (%) 40 60 40 60 60 60 60 60 60 60 60 60 60 60 60 60						



Structure of Question Paper (ESE Theory Paper)

The question paper will consist of 5 questions, one from each unit. Student has to Attempt all questions. All questions carry 20 marks each. Parts a) and b) of question Q1 to Q5 will be compulsory and each part carries 2 marks. Parts c), d) and e) of Q1 to Q5 Carry 8 marks each and the student may attempt any 2 parts.

Important Note:

- 1. The purpose of examination should be to assess the Course Outcomes (CO) that will ultimately lead to attainment of Programme Outcomes (PO). A question paper must assess the following aspects of learning as planned for a specific course i.e Remember, Understand, Apply, Analyze, Evaluate & Create (reference to Bloom's Taxonomy). The standard of question paper will be based on mapped BL level complexity of the unit of the syllabus, which is the basis of CO attainment model adopted in the university.
- 2. Case Study / Caselet is essential in every question paper (wherever it is being taught as a part of pedagogy) for evaluating higher-order learning. Not all the courses might have case teaching method used as pedagogy.
- 3. There shall be continuous evaluation of the student and there will be a provision of real time reporting on QUMS. All the assignments will be evaluated through module available on ERP for time and access management of the class.



Program Structure – Bachelor of Science in Animation &VFX

Introduction

Bachelor of Science Animation & VFX syllabus is broad and multidisciplinary consists of various subjects, it focuses on creative art and animating the characters for transmission of messages in meaningful and effective way. It is designed for production of various character in virtual format

Bachelor of Science Animation & VFX syllabus are designed in such a way that students grasp all the knowledge related to animation and Visual effects and enhancing employability and entrepreneurial ability of the graduates the Quantum University increase the practical content in the courses wherever necessary. The total number of credit hours in 6 semesters including Student programme will range from 150 to 160 for all the programmes.

The students would be required to record their observations in field and media-industries on daily basis and will prepare their project report based on these observations.

Experiential Learning Programme (ELP)/ Hands On Training (HOT)

This program will be undertaken by the students preferably during the sixth semester for a total duration of 24 weeks with a weightage of 0+20 credit hours. The students will register for any of two modules, listed below, of 0+10 credit hours each.

- Animator
- Video editor
- Making of digital Short Film/Documentary
- Science of Video Editing
- Digital Media
- Content Development
- Voice over production
- Still Photography
- Graphics Designing
- Visual effects



Curriculum (19-22) Version 2019.01

Quantum School of Mass Media & Design Bachelor of Science in Animation & Vfx- **PC: 05-3-03**

BREAKUP OF COURSE

	CATEGORY.	CDEDITO
Sr. No	CATEGORY	CREDITS
1	Foundation Core (FC)	8
2	Program Core (PC)	91
3	Program Electives (PE)	-
4	Open Electives (OE)	9
5	Project	12
6	Internship	-
7	Value Added Programs (VP)	10
8	General Proficiency (GP)	5
9	Passion Programs (PROPs)*	-
10	Disaster Management*	2*
	TOTAL NO. OF CREDITS (Without Minor)	135
	TOTAL NO. OF CREDITS (With Minor)	144

^{*}Non-CGPA Audit Course

SEMESTER-WISE BREAKUP OF CREDITS

Sr.No	CATEGORY	SEM	SEM	SEM	SEM	SEM	SEM	TOTAL
		1	2	3	4	5	6	
1	Foundation Core	4	4	-	-	-	-	8
2	Program Core	14	12	14	15	19	17	91
3	Program Electives					-	-	-
4	Open Electives		3	3	3			9
5	Projects	-	-	-	-	4	8	12
6	Internships	-	-	-	-	-		
5	VPs	-	2	2	-	4	2	10
6	GP	1	1	1	1	1	-	5
7	PROPs*							
10	Disaster		2					2*
	Management*							
	TOTAL CREDITS	19	24	20	19	28	27	135

^{*} Non-CGP Audit Course

Minimum Credit Requirements:

B.Sc. Animation & VFX: 143 credits



SEMESTER 1

Course Code	Category	Course Title	L	Т	Р	С	Version	Course Prerequisite
JM3102	FC	General Studies& Current Affairs	2	0	0	2	1.0	Nil
AN3101	PC	Basic of Sketching and Drawings	2	0	4	4	1.0	Nil
AN3103	PC	Introduction to Graphic designing	4	0	0	4	1.0	Nil
AN3102	PC	Preproduction Elements	4	0	0	4	1.0	Nil
VP3114	PC	Fundamental of Photography	0	0	4	2	1.0	Nil
EG3103	FC	English Communication	0	0	4	2	1.0	Nil
GP3101	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	12	0	12	19		

Contact hrs.: 24hrs

SEMESTER 2

Course Code	Category	COURSE TITLE	L	Т	P	С	Version	Course Prerequisite
CE3101	FC	Disaster Management*	2	0	0	2*	1.0	Nil
CY3205	FC	Environmental Studies	2	0	0	2	1.0	Nil
AN3201	PC	2d Digital Animation (Flash)	2	0	4	4	1.0	Nil
AN3202	PC	Film Production	4	0	0	4	1.0	Nil
GD3202	PC	Advance Graphics Design for Animation	3	0	2	4	1.0	Nil
AN3203	PC	Introduction to Classical Animation	3	0	0	4	1.0	Nil
	OE	Open Elective I	3	0	0	3		
VP3212	VP	Audio Editing	0	0	4	2	1.0	Nil
GP3201	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	19	0	10	24		

Contact hrs.: 29hrs.



SEMESTER 3

Course Code	Categor y	Course Title	L	T	Р	С	Version	Course Prerequisite
AN3301	PC	3-D Modelling and 3-D Texturing	1	0	4	3	1.0	Nil
AN3302	PC	3-D Character Design	1	0	4	3	1.0	Nil
AN3303	PC	Print Media	2	0	0	2	1.0	Nil
AN3304	PC	Motion Graphics & Composite	1	0	4	3	1.0	Nil
AN3305	PC	Compositing for VFX	1	0	4	3	1.0	Nil
	OE	Open Elective II	3	0	0	3	1.0	Nil
VP3315	VP	Video Editing	0	0	4	2	1.0	Nil
GP3301	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	9	0	20	20		

Contact hrs.:29hrs.



SEMESTER 4

Course Code	Category	COURSE TITLE	L	T	P	С	Version	Course Prerequisite
AN3401	PC	3D Architectural Visualization	2	0	4	4	1.0	Nil
AN3402	PC	3D Shading, Lighting and Rendering	1	0	4	3	1.0	Nil
AN3440	PC	Tracking and Match Moving	0	0	4	2	1.0	Nil
JM3403	PC	Cinematography	3	0	0	3	1.0	Nil
AN3404	PC	FX & Simulation	1	0	4	3	1.0	Nil
	OE	Open Elective III	3	0	0	3	1.0	Nil
GP3401	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	10	0	16	19		

Contact hrs.: 26hrs.

All students are required to undergo 04 to 06 weeks' summer project after completion of 4th semester. Performance of this project will be evaluated and awarded in 5th semester.



SEMESTER 5

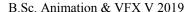
Course Code	Categor y	Course Title	L	Т	P	С	Version	Course Prerequisite
AN3502	PC	3D Animation	2	0	4	4	1.0	Nil
AN3503	PC	Computer Aided 3D Dynamics	1	0	4	3	1.0	Nil
AN3504	PC	Computer Aided 3D Rigging	2	0	2	3	1.0	Nil
AN3505	PC	Voice Over & Sound Design	1	0	4	3	1.0	Nil
AN3506	PC	Lighting & Rendering for VFX	1	0	4	3	1.0	Nil
AN3507	PC	2D Game Art	1	0	4	3	1.0	Nil
VP3414	VP	Clay Modeling and Sculptures	0	0	4	2	1.0	Nil
VP3514	VP	Aesthetics in design	1	0	2	2	1.0	Nil
AN3570	PT	Summer project (Film Pre-Production)	0	0	8	4	1.0	Nil
GP3501	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	9	0	36	28		451

Contact hrs.: 45hrs.

SEMESTER 6

Course Code	Category	COURSE TITLE	L	Т	Р	С	Version	Course Prerequisite
AN3601	PC	Advance Rigging	2	0	2	3	1.0	Nil
AN3602	PC	Acting for Animation	2	0	4	4	1.0	Nil
AN3603	PC	Character Animation	2	0	4	3	1.0	Nil
AN3604	PC	Facial & Lips Synchronization	1	0	4	3	1.0	Nil
AN3605	PC	Game Design & Development	1	0	6	4	1.0	Nil
VP3614	VP	Experimental printing	0	0	4	2	1.0	Nil
AN3670	PT	Major Project	0	0	16	8	1.0	Nil
		TOTAL	8	0	40	27		

Contact hrs.: 48hrs.





B. Choice Based Credit System (CBCS)

Choice Based Credit System (CBCS) is a versatile and flexible option for each student to achieve his target number of credits as specified by the UGC and adopted by our university.

The following is the course module designed for the B..Com program with specialization Honors and Banking and Insurance.

Core competency: Students will acquire core competency in Commerce and Finance and its allied areas.

Program/Discipline Specific Elective Course (DSEC):

Skilled communicator: The course curriculum incorporates basics and advanced training in order to make a graduate student capable of expressing the subject through technical writing as well as through oral presentation.

Critical thinker and problem solver: The course curriculum also includes components that can be helpful to graduate students to develop critical thinking ability by way of solving problems/numerical using basic & advance knowledge and concepts of Commerce and Finance

Sense of inquiry: It is expected that the course curriculum will develop an inquisitive characteristic among the students through appropriate questions, planning and reporting experimental investigation.

Skilled project manager: The course curriculum has been designed in such a manner as to enabling a graduate student to become a skilled project manager by acquiring knowledge about mathematical project management, writing, planning, study of ethical standards and rules and regulations pertaining to business and trade related projects operation.

Ethical awareness/reasoning: A graduate student requires understanding and developing ethical awareness/reasoning which the course curriculums adequately provide.

Lifelong learner: The course curriculum is designed to inculcate a habit of learning continuously through use of advanced ICT technique and other available techniques/books/journals for personal academic growth as well as for increasing employability opportunity.

Value Added Course (VAC): A value added audit course is a non-credit course which is basically meant to enhance general ability of students in areas like soft skills, quantitative aptitude and reasoning ability - required for the overall development of a student and at the same time crucial for industry/corporate demands and requirements. The student possessing these skills will definitely develop acumen to perform well during the recruitment process of any premier organization and will have the desired confidence to face the interview. Moreover, these skills are also essential in day-to-day life of the corporate world. The aim is to nurture every student for making effective communication, developing aptitude and a general reasoning ability for a better performance, as desired in corporate world. There shall be four courses of Aptitude in Semester I, II, III & IV semesters and two courses of Soft Skills in III & IV Semesters and will carry no credit, however, it will be compulsory for every student to pass these courses with minimum 50% marks to be eligible for the certificate. These marks will not be included in the calculation of CGPI. Students have to specifically be registered in the specific course of the respective semesters.

Skill Enhancement Course: This course may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge.

Generic/Open Elective Course (OE): Open Elective is an interdisciplinary additional subject that is compulsory in a program. The score of Open Elective is counted in the overall aggregate marks under Choice Based Credit System (CBCS). Each Open Elective paper will be of 3 Credits in II, III and IV semesters. Each student has to take Open/Generic Electives from department other than the parent department. Core / Discipline Specific Electives will not be offered as Open Electives.

Non-Credit CGPA: This is a compulsory non credit CGPA course hat does not have any choice and will be of 3 credits. Each student of B.Com Program has to compulsorily pass the Environmental Studies and Disaster Management.



C. Program OutcomesofB.Sc. Animation & VFX program:

	_
PO-01	Create Computer Graphics assets creation, Visual Effects, 3D
	and Graphic Design.
PO-02	Create a complex project to finish with smoothly in a result-
	oriented manner both individually and as a team.
PO-03	Demonstrate, communicate ideas, emotion and intent effectively
	in visual, oral and written forms.
PO-04	Apply thoughtful contributors to society.
PO-05	Analyze learning cycle, and become effective and efficient industry leaders
	with the quality of entrepreneurship.
PO-06	Evaluate the work collaboratively and effectively in diverse situations.
PO-07	Highly trained to demonstrate their knowledge, skill, dedication and work
	ethics required to be a successful member of a production team
PO-08	Demonstrate the industrial requirements.
PO-09	Demonstrate their acquired knowledge for the growth of social and ethical
	values in outdoor activities, such as service learning, internships and field
	work.
PO-10	Define the content for mentor the staff placed under them to produce desired
	results.

D. Program Specific Outcomes:

PSO-1	To create competence in the fields of Computer Graphics assets
	creation, Visual Effects,3D animation and Graphic designing.
PSO-2	To helpAcquire multiple skills that will enhance their employability in different segments of Animation, 3D and Entertainment industry
PSO-3	Understand the ongoing changing trends and keep them updated with the latest technology.
PSO-4	Understand the ongoing changing trends and keep them updated with the latest technology.
PSO-5	Inculcate adequate knowledge, skill, dedication and work ethics required for accomplishment of the assigned task.



E. Program Educational Objectives (PEO's)

PEO-1	B.Sc. Animation, VFX & 3D: After completing graduation students will be equipped
	with creative and technical skills in various domains of Animation, 3D, VFX and
	multimedia. This will enable them to be employed globally.
PEO-2	Animation : This specialization offered to the students will enhance their knowledge in
	the field 3D Animation. Students will become an expert in specific domain of 3d
	Animation and will work in Films, Games and other animation related fields.
PEO-3	Graphic Design: This specialization offered to the students will enhance their
	knowledge in the field of 2D Animation & Graphic Design. Students
	will achieve expertise in the specific domain of Graphics Design, 2D
	animation and will be able to work in Films, Graphic design Companies
	and other animation related fields.

F. Pedagogy & Unique practices adopted:

"Pedagogy is the method and practice of teaching, especially for teaching an academic subject or theoretical concept". In addition to conventional time-tested lecture method, the institute will emphasize on experiential learning:

Role Play & Simulation: Role- play and simulation are forms of experiential learning. Learners take on different roles, assuming a profile of a character or personality, and interact and participate in diverse and complex learning settings. Role-play and simulation function as learning tools for teams and groups or individuals as they "play" online or face-to-face. They alter the power ratios in teaching and learning relationships between students and educators, as students learn through their explorations and the viewpoints of the character or personality they are articulating in the environment. This student-centered space can enable learner-oriented assessment, where the design of the task is created for active student learning. Therefore, role-play& simulation exercises such as virtual share trading, marketing simulation etc. are being promoted for the practical-based experiential learning of our students.

Video Based Learning (VBL)&Learning through Movies (LTM): These days technology has taken a front seat and classrooms are well equipped with equipment and gadgets. Video-based learning has become an indispensable part of learning. Similarly, students can learn various concepts through movies. In fact, many teachers give examples from movies during their discourses. Making students learn few important theoretical concepts through VBL & LTM is a good idea and method. The learning becomes really interesting and easy as videos add life to concepts and make the learning engaging and effective. Therefore, our institute is promoting VBL& LTM, wherever possible.

Field/Live Projects: The students, who take up experiential projects in companies, where senior executives with a stake in teaching guide them, drive the learning. All students are encouraged to do some live project other their regular classes.

Industrial Visits: Industrial visit are essential to give students hand-on exposure and experience of how things and processes work in industries. Our institute organizes such visits to enhance students' exposure to practical learning and work out for a report of such a visit relating to their specific topic, course or even domain.

MOOCs: Students may earn credits by passing MOOCs as decided by the college. Graduate level programs may award Honors degree provided students earn pre-requisite credits through MOOCs. University allows students to undertake additional subjects/course(s) (In-house offered by the university through collaborative efforts or courses in the open domain by various internationally recognized universities) and to earn additional credits on successful completion of the same. Each course will be approved in advance by the University following the standard procedure of approval and will be granted credits as per the approval.

Quantum UNIVERSITY

B.Sc. Animation & VFX V 2019

Keeping this in mind, University proposed and allowed a maximum of two credits to be allocated for each MOOC courses. In the pilot phase it is proposed that a student undertaking and successfully completing a MOOC course through only NPTEL could be given 2 credits for each MOOC course.

For smooth functioning and monitoring of the scheme the following shall be the guidelines for MOOC courses, Add-on courses carried out by the College from time to time.

- a) It will necessary for every student to take at least one MOOC Course throughout the programme.
- b) There shall be a MOOC co-ordination committee in the College with a faculty at the level of Professor heading the committee and all Heads of the Department being members of the Committee.
- c) The Committee will list out courses to be offered during the semester, which could be requested by the department or the students and after deliberating on all courses finalize a list of courses to be offered with 2 creditsdefined for each course and the mode of credit consideration of the student. The complete process shall be obtained by the College before end of June and end of December for Odd and Even semester respectively of the year in which the course is being offered. In case of MOOC course, the approval will be valid only for the semester on offer.
- d) Students will register for the course and the details of the students enrolling under the coursealong with the approval of the Vice Chancellor will be forwarded to the Examination department within fifteen days of start of the semester by the Coordinator MOOC through the Principal of the College.
- e) After completion of MOOC course, Student will submit the photo copy of Completioncertificate of MOOC Course to the Examination cell as proof.
- f) Marks will be considered which is mentioned on Completion certificate of MOOC Course.
- g) College will consider the credits only in case a student fails to secure minimum required credits then the additional subject(s) shall be counted for calculating the minimum credits required for the award of degree.

Special Guest Lectures (SGL) &Extra Mural Lectures (EML): Some topics/concepts need extra attention and efforts as they either may be high in difficulty level or requires experts from specific industry/domain to make things/concepts clear for a better understanding from the perspective of the industry. Hence, to cater to the present needs of industry we organize such lectures, as part of lecture-series and invite prominent personalities from academia and industry from time to time to deliver their vital inputs and insights.

Student Development Programs (SDP): Harnessing and developing the right talent for the right industry an overall development of a student is required. Apart from the curriculum teaching various student development programs (training programs) relating to soft skills, interview skills, SAP, Advanced excel training etc. that may be required as per the need of the student and industry trends, are conducted across the whole program. Participation in such programs is solicited through volunteering and consensus.

Industry Focused programmes: Establishing collaborations with various industry partners to deliver the programme on sharing basis. The specific courses are to be delivered by industry experts to provide practice-based insight to the students.

Special assistance program for slow learners & fast learners: write the note how would you identify slow learners, develop the mechanism to correcting knowledge gap. Terms of advance topics what learning challenging it will be provided to the fast learners.

Induction program: Every year 3 weeks induction program is organized for 1st year students and senior students to make them familiarize with the entire academic environment of university including Curriculum, Classrooms, Labs, Faculty/ Staff members, Academic calendar and various activities.

Mentoring scheme: There is Mentor-Mentee system. One mentor lecture is provided per week in a class. Students can discuss their problems with mentor who is necessarily a teaching faculty. In this way, student's problems or issues can be identified and resolved.

Competitive exam preparation: Students are provided with one class in every week for GATE/ Competitive exams preparation.

Extra-curricular Activities: organizing& participation in extracurricular activities will be mandatory to help students develop confidence & face audience boldly. It brings out their leadership qualities along with planning & organizing skills.



Students undertake various cultural, sports and other competitive activities within and outside then campus. This helps them build their wholesome personality.

Career & Personal Counseling: - Identifies the problem of student as early as possible and gives time to discuss their problems individually as well as with the parents. Counseling enables the students to focus on behavior and feelings with a goal to facilitate positive change. Its major role lies in giving: Advice, Help, Support, Tips, Assistance, and Guidance.

Participation in Flip Classes, Project based Learning(A2 Assignment), Workshops, Seminars & writing & Presenting Papers: Departments plan to organize the Flip Classes, Project based Learning(A2 Assignment), workshops, Seminars & Guest lecturers time to time on their respective topics as per academic calendar. Students must have to attend these programs. This participation would be count in the marks of general Discipline & General Proficiency which is the part of course scheme as non-credit course.

Formation of Student Clubs, Membership & Organizing & Participating events: Every department has the departmental clubs with the specific club's name. The entire student's activity would be performed by the club. One faculty would be the coordinator of the student clubs & students would be the members with different responsibility.

Capability Enhancement & Development Schemes: The Institute has these schemes to enhance the capability and holistic development of the students. Following measures/ initiatives are taken up from time to time for the same: Career Counseling, Soft skill development, Remedial Coaching, Bridge Course, Language Lab, Yoga and Meditation, Personal Counseling

Library Visit & Utilization of QLRC: Studentsmay visit the library from morning10 AM to evening 8 PM. Library created its resources Database and provided Online Public Access Catalogue (OPAC) through which users can be accessed from any of the computer connected in the LAN can know the status of the book. Now we are in process to move from OPAC to KOHA.



Detailed Syllabus (Semester wise /course wise)

JM3102	Title: General Studies & Current Affairs	LTPC					
		2 0 0 2					
Version No.	1.1						
Course Prerequisites	Nil						
Objectives	This course intends to give basic general knowledge about Indian political system, economy, geography, and culture, and current affairs (national and international) which is essential and beneficial for a budding journalist.						
Expected Outcome	On completion of this course students should be able to know our political system, our culture and all current national and international issues.						
Unit No.	Unit Title	No. of hours (per Unit)					
Unit I	Indian Political System	6					
	Institution of India, Centre and its powers, Fundamental rights, Preside Commission, Parliament houses-Upper House and Lower House, Pandario of India.						
Unit II	Indian Economy	8					
National Income, GDP & GCOVID 19, World Bank	NP, agriculture, industry and commerce, Budget and its terminology, Eco	onomy post					
Unit III	Indian Geography and Culture	6					
States, Rivers and Dams, A and festivals, dances, language	Agriculture, Forest reserves, Indian demography, Unity in diversity in Inages.	dia: religions, fairs					
Unit IV	Indian Constitution & Panel Code	6					
Basic of CRPCc& IPC, Art	icle 370, Defamation, CAA and NRC						
Unit V Current Affairs							
Awareness about current re	gional, national & international issues and events						
Text Books	1. Daily News Paper.						
	2. Competition Success Review (Monthly)						
Reference Books	1.Pratiyogita Darpan (Monthly)						
	2.Competition Wizard (Monthly)	m1 1					
	3. National and Regional Newspaper, (Times of India, Hindustan Time	s, The Hindu,					
	Indian 4. Express, Garhwal Post, The Economic Times) 5.Magazines (India Today, Frontline, Outlook, and Yojana) Manorama	Voor Doole					
	MalayaliManorama	Year Book;					
Mode of Evaluation	Internal and External Assessment						
Recommendation by Board of Studies on	11-06-2019						
Date of approval by the Academic Council	13/07/2019						



Course Outcome ForJM3102

Unit-wise Course Outcome	Descriptions	BL Lev el	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Students will be able to aware with current scenario of society.	2	Emp
CO2	Students will be understand the contemporary issue and able to related the things	2	S
CO3	Students will be able to develop the opinion and create the new thought about it	2	S
CO4	Students will be able to collect lot of information.	3	Ent
CO5	Students will be able to inculcate the new perception about current scenario.	5	None

CO-PO Mapping for JM3102

Course	P	Program Outcomes (Course Articulation Matrix (Highly											Program Program Specific Educational			
Outco		Mapped- 3, Moderate- 2, Low-1, Not related-0)												Educat	tional	
mes												Outcon	nes	Outco	mes	
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PS	PEO	PE	PE	
	1	2	3	4	5	6	7	8	9	0	1	O2	1	O2	О3	
CO 1	1	1	1	1	1	1	1	1	0	0	2	1	2	2	0	
CO 2	1	0	0	0	1	0	2	0	0	0	1	0	2	3	3	
CO 3	0	2	3	0	1	1	2	0	0	0	1	0	1	3	3	
CO 4	2	0	1	0	0	1	0	0	0	0	0	0	3	3	3	
CO 5	3	0	2	0	2	2	2	0	0	0	3	1	3	3	2	
Avg	1.4	0.6	1.4	0.25	1	1	1.25	0.2	0	0	1.4	0.4	2.2	2.8	2.2	



AN3101	Title: Basic of Sketching and Drawing	L T P C 2 0 4 4
		2044
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	This course is design to familiarize our students all the basics of Sketching and Drawing.	
Expected Outcome	On completion of the course students should be able to: undesratnd the strokes of sketch	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Writing with Strokes	10
	o pencils HB +0.8b,Shading in pencil medium,Shading, shading in diexercises, paper division, understanding basic geometric shapes.	fferent angles
Unit II	Textures and Shapes	10
Formatting in different te understanding different to	extures in pencil, Simple objects in drawing, Simple shapes of geometric exture pencil shades.	cal shapes,
Unit III	About Landscape	9
	g of sky land, stones ,deserts, Trees & plants, roadsides, riversPerspect niques for outdoor lighting.	ive in lines in
Unit IV	Figure drawing & Character design	8
	parts, character variations. Human anatomy parts like hand, legs, a parts, drawing quick sketches, gesture drawings.	rms, eyes,
Unit V	Sketching for Visuals	10
Make a sketch for a com	mercial, sketching for short film poster, Sketching for Building	
Text Books	Drawing for the Absolute Beginner	
Reference Books	Figure drawing made easy (by Adityachari) Anatomy and drawing (by vector parad)	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	



Course Outcome For AN 3101

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Students should be able to Implement the basics Drawing.	1	Emp
CO2	Students should be able to describe all types of pencils, life drawing, and environment study.	4	S
CO3	Students must be able to differentiate all different human poses, and drawing lines.	1	Ent
CO4	Students must be able to Describe the rules of animation, warm up exercise, imagination and memory drawing.	2	Ent
CO5	Students must be able to understand how to operate different traditional techniques of drawing different human anatomy parts.	6	S

CO-PO Mapping for AN3101

Course	Pro	Program Outcomes (Course Articulation Matrix (Highly											Program Program		
Outco		Mapped- 3, Moderate- 2, Low-1, Not related-0) Specific											ic	Educational	
mes											(Outcon	nes	Outco	mes
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PS	PEO	PE	PE
	1	2	3	4	5	6	7	8	9	10	1	O2	1	O2	O3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	0	2	1	3	1	3	3	2	3	3	2	3
CO 3	0	2	2	0	2	1	2	1		2	0	0	2	3	1
CO 4	1	1	3	2	2	3	2	2	2	1	2	2	3	1	0
CO 5	3	1	1	3	1	3	2	3	1	1	3	2	0	2	2
Avg	1.8	1.8	2.2	1.4	2	2	2	1.8	2	2	2	2	2	2	1.6

AN3103	Title: Introduction of Graphic designing	L T P C 4 0 0 4
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	The aim of this syllabus is to know our students about digital graphic designing.	
Expected Outcome	On completion of the course students should be able to : design different designing elements.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Design & Graphics	8
	wing, Elements and principles of design, Introduction to graphic elemen	ts.understanding
of vector and raster graphic Unit II	rs, pixels. Tools	9
	oftware workspace, tools and techniques; understanding symbols and layies, pen tool brush tool, erazer tool.customizing default workspace.	vers, create some
Unit III	Visual Art	10
	el draw, design greeting card on photoshop, design kid's magazine on plechure on corel draw.understanding colors and its visual meaning.	notoshop, photo
Unit IV	Creating digital characters	10
Design imaginery characte	rs, creating character description, creating supporting characters.	1
Unit V	Introduction to digital environment	10
	d painting, imagine the environment concept, create the sypnosis, colour scape natural elements like stones, rock, grasslands etc.	the objects and
Text Books	scape natural elements like stones, rock, grassianus etc.	
Text Dooks	Designing Brand Identity	
Reference Books	Photoshop CS6 in simple steps (by Kogent learning solutions Incdre	am tech press)
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	



Course Outcome For AN 3103

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the basic of concept of sketching and drawing.	1	Emp
CO2	Understand the tools and techniques, basic of interface and workspace	2	S
CO3	Create the visual art on various software's like Photoshop and coral draw.	1	S
CO4	Create the imaginary characters and their description for sketching and drawing.	2	Ent
CO5	Understand the basic concepts of digital painting and digital art.	3	Emp

CO-PO Mapping for AN3103

Course												Program Specific				
Outcomes	p	roor	am O	utcom	es (Ci	Outcomes				m						
		_		Sappece 1											lucat	
		(****	,111 / 11.	шррос	-	ted-0		, 2011	1,11						onal	
							,								utco	
		D	D	DO	D	D	D	D	n	DO	DC	DC	DE		nes	
	P	P	P	PO	P	P	P	P	P	PO	PS	PS	PE O1	PE	PE O2	
	O	O 2	O3	4	O5	O6	O7	O8	O9	10	O1	O2	O1	O2	О3	
CO 1	1															
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2	
CO 2	2	2	2	0	2	1	3	1	3	3	2	3	3	2	3	
CO 3	0	2	2	0	2	1	2	1		2	0	0	2	3	1	
CO 4	1	1	3	2	2	3	2	2	2	1	2	2	3	1	0	
CO 5	3	1	1	3	1	3	2	3	1	1	3	2	0	2	2	
Avg	1	1														
	8	8	2.2	1.4	2	2	2	1.8	2	2	2	2	2	2	1.6	

AN3102	Title: Preproduction elements	L T P C 4 0 0 4
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	The aim of this course is to introduce our students with all the basics of Preproduction.	
Expected Outcome	Student should know about pre production skills	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Basic cinematic techniques	11
Introduction to Film, came importance of storyboardi	era angles, movements, transitions, zoom in zoom out, Pan, Dolly shot, ng.	tilt shot.
Unit II	Composition techniques	9
Camera height, 180 degree of shots, understanding ed	e rule, rule of third, birds eye view, Staging, Interior and exterior framiliting.	ng. different types
Unit III	Techniques of Perspective	10
	e point perspective, POV shot, POV projectile, dynamic angles, low an pective. human form in perspective, drawing different archetectural des	
Unit IV	Editing Techniques	10
Cut to next shot, cut zoom cut, impact flash.understar	n in, cut zoom out, reveal frame, camera snap, photo to scene, montage and time lapse.	sequence, cross
Unit V	Elements of storyboarding	9
	s, storyboard notations: BG, CS, ECS, MS, MCS, LS, WS, EWS, dialog t arrows, creating storyboard for a story.	gue, action,
Text Books	The Ultimate Pre Production Checklist for Film & Video	
Reference Books	The art of layout and storyboarding (by Mark t byrne). Prepare to board! (by Nancy Beiman)	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	



Course Outcome For AN 3102

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Students will able to Understand the process of film making and script writing.	2	Emp
CO2	Students will be able to Create the imaginary characters and layout for programs	2	S
CO3	Students will able to Relate with the visual and technical requirements of production	6	S
CO4	Students will able to Understand the process of audio recording and voice over techniques	6	Ent
CO5	Students will able to describe the multiple characters and their description	2	None

CO-PO Mapping for AN3102

Course Outcomes	P	_	am O Iappe		Sp	ogram ecific comes	Edu	Program Educatio nal Outcome s							
	P	P	PO	PO	PO	PO	PO	PO	PO	PO	PS	PS	PE	PE	PE
	О	О	3	4	5	6	7	8	9	10	O1	O2	O1	O2	O3
	1	2													
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	0	2	1	3	1	3	3	2	3	3	2	3
CO 3	0	2	2	0	2	1	2	1		2	0	0	2	3	1
CO 4	1	1	3	2	2	3	2	2	2	1	2	2	3	1	0
CO 5	3	1	1	3	1	3	2	3	1	1	3	2	0	2	2
Avg	1	1													
	8	1. 8	2.2	1.4	2	2	2	1.8	2	2	2	2	2	2	1.6

VP3114	Title: Fundamentals of Photography	L T P C 0 0 4 2
Version No.	1.1	
Course Prerequisites	Nil	
Objectives	The aim of this course to provide knowledge about the Photography and photo editing for a professional.	
Expected Outcome	On completion of the course student should be able to click creative photographs with the natural and artificial lights and also learn the advance photo editing techniques.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Introduction to photography	6
	nera works & its parts, role and importance of photography ke a pin hole on the principle of camera.	•
Unit II	Camera	7
Camera, SLRs, DSLRs, T Lab- practical on manual	LR, exposure, aperture, shutter-speed, iso, depth of field, accesso camera settings.	ries.
Unit III	Composition & lighting	6
Composition of photographical Lab- practical on lighting	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition.	d light & soft light,
Unit IV	Photo Editing	6
Basics of editing fundame	entals, color correction, details reading, Lab- Photoshop	
Unit V	Lights & Combination	
Use of lights and their co Practical in still studio.	mbination, artificial lights, natural lights, how to use reflectors. La	b- Light based
Text Books	The Beginners' photography Guide by Jess Ross	
Reference Books		
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	



Course Outcome ForVP3114

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Student should able to memorize about concept of photography and its process, camera parts and features	4	None
CO2	Student should able to understand about the types of camera and lenses and their modes	3	S
CO3	Student should able to memorize about composition and framing of the shot and lighting setup in photography	3	S
CO4	Student should able to understand the basic concept of photo editing and color correction	3	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	3	Emp

CO-PO Mapping for VP3114

Course]	Progra	ım Ou	itcome	es (Co	urse A	Articu	lation	Matri	X	Prog	gram	F	rogran	1
Outcomes	(Hig	ghly N	lappe	d- 3, N	Moder	ate-2	, Low	-1, No	ot rela	ted-0	Spe	cific	Educational		
)					Outc	omes	Outcomes		
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PS	PS	PE	PE	PE
	1	2	3	4	5	6	7	8	9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	0	2	1	3	1	3	3	2	3	3	2	3
CO 3	0	2	2	0	2	1	2	1		2	0	0	2	3	1
CO 4	1	1	3	2	2	3	2	2	2	1	2	2	3	1	0
CO 5	3	1	1	3	1	3	2	3	1	1	3	2	0	2	2
Avg	1.8	1.8	2.2	1.4	2	2	2	1.8	2	2	2	2	2	2	1.6



EG3103	Title: English Communication	LT PC
T7 • N7		0 0 4 2
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	To make students communicate effectively in English.	
Expected Outcome	The students will be able to effectively comprehend, converse and write in English in an interview setting	
Unit No.	Unit Title	No. of Hours (Per Unit)
Unit I (2 Hrs)	Essential Grammar	2
Modal Verbs for request, pro	bability; Parts of Speech, and use of Tenses in simulated interview environments	ent
Unit II (8 Hrs)	Communication Skills	8
 Listening Skills Just a Minute Volte Face Debate Group Discussion Presentation Face-Off Extempore Role Play 		
Unit III (2 Hrs)	Reading Skills	2
News Paper Reading, Passag	e Reading, Success Stories	
Unit IV (8Hrs)	Self Management Skills	8
 Body Language: Ges Soft Skills: Leadersh Interpersonal Skills: 	Analysis, Self Motivation tures, Posture, Physical Appearance, Facial Expression ip Skills, Team Work Image Building, Interpersonal Distance, Signature Personality	
Unit V (2Hrs)	Writing Skills	2
1 , 1	ence, Writing Letters, Invitation, Applications, Projects Writing	-
Text Books	1.Wren & Martin, English Grammar and composition, S. Chand Publication	١.
Reference Books	1. Ramaswamy, Practical English Grammar, Sura CollegeofCompetition.	
N. 1 . CT	2. Sandeep Kumar Jain, Basic Concepts of English Grammar, NotionPress.	
Mode of Evaluation	Internal and External Examinations	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	

Course Outcome For EG3103



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Student will be able to understand the soft skills and the initial atticates	4	none
CO2	Students will be able to understand the inter personal and intrapersonal skill	3	S
CO3	Students will be able to apply the formal gesture and communication skills	3	S
CO4	Students will be able to apply all formal behaviors .	3	Ent
CO5	Students will be able to understand the basic of body language .	3	Emp

CO-PO Mapping for EG3103

Course	P	rograi	m Ou	tcome	es (Co	urse 1	Articu	llatior	n Matı	rix	Prog	gram	Program		
Outco	((High	ly Ma	ipped-	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spec	cific	Educational		
mes		related-0)								Outc	omes	Outcomes			
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	2	1	1	1	1	1	1	0	0	1	1	2	0	2	3
CO 2	2	0	2	0	2	2	3	3	1	3	2	3	3	2	2
CO 3	0	3	2	3	3	2	0	3	2	2	3	1	2	0	3
CO 4	2	3	3	3	3	3	2	2	3	2	1	2	3	3	1
CO 5	3	2	3	3	1	1	3	3	3	3	3	1	3	3	0
Avg	1.8	1.8	2.2	2	2	1.8	1.8	2.2	1.8	2.2	2	1.8	2.2	2	1.8

SEMESTER II

CE3101	Title: Disaster Management	L T PC
		2 0 0 2
Version No.	1.0	
Course Prerequisites	Nil	Total No. of
		Hours: 24
Objectives	The course is intended to provide a general concept in the dimensions of c	
	by nature beyond the human control as well as the disasters and environm	
	induced by human activities with emphasis on disaster preparedness, response recovery.	
Expected Outcome	Enhance the knowledge by providing existing models in risk reduction str prevent major causalities during disaster.	rategies to
Unit No.	Unit Title	No. of hours
		(per Unit)
Unit: 1	Introduction on Disaster	5
	: A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc	
	strial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea,	
	Building and Bridge), War and Terrorism etc. Causes, effects and practical e	xamples for all
disasters.	D. 177. 199. 4.1.4	T ₄
Unit II	Risk and Vulnerability Analysis	<u>4</u>
for Vulnerability Reduction	sis 2. Risk Reduction 3. Vulnerability: Its concept and analysis 4. Strategic	Development
Unit III	Disaster Preparedness	5
	acept and Nature, Disaster Preparedness Plan Prediction, Early Warnings and	d Cafatri
	ole of Information, Education, Communication, and Training, . Role of Gov	
	dies Role of IT in Disaster Preparedness. Role of Engineers on DisasterMa	
Unit IV	Disaster Response	5
	onse Plan Communication, Participation, and Activation of Emergency Pre	eparedness
	uation and Logistic Management Role of Government, International and NG	
	Management(Trauma, Stress, Rumorand Panic). Relief and Recovery Medical H	
Response to Different Disa		
Unit V	Rehabilitation, Reconstruction and Recovery	5
	litation as a Means of Development. Damage Assessment Post Disaster effe	
	on of Long-term Job Opportunities and Livelihood Options, Disaster Resist	
	nd Hygiene Education and Awareness, Dealing with Victims' Psychology,	Long-term
	Role of EducationalInstitute.	
Text Books	1. Bhattacharya, Disaster Science and Management, McGraw Hill Educat	ion Pvt. Ltd.
Reference Books	1. Dr. Mrinalini Pandey, Disaster Management, Wiley India Pvt.Ltd.	
	2. Jagbir Singh, Disaster Management: Future Challenges and Opportun	ities, KW
	Publishers Pvt.Ltd.	
Mode of Evaluation	Internal and External Examinations	
Recommendation by	5/13/2020	
Board of Studies on		
Date of approval by the	9/13/2020	
Academic Council		

Course Outcome for CE3101

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Em)/ Skill(S)/ Entrepreneurship (En)/ None (Use, for more than one)
CO1	To learn about the disasters caused by nature and human activities and its types.	1	Em
CO2	To understand the concept of risk and vulnerability analysis.	2	Em
CO3	To understand about the disaster preparedness.	3	Em
CO4	To understand the concept of disaster response.	2	Em
CO5	To understand about the rehabilitation, reconstruction and recovery for disaster management.	3	Em

Course Outcomes	Prog	gram Oı	utcomes	(Cours			Matrix (related		Mappeo	l- 3, Mod	lerate- 2,	te- 2, Program Specific Outcomes			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	
CO 1	2	3	2	1	2	_	2	3	2	_	2	3	2	2	
CO 2	2	3	2	1	2	2	2	3	2	_	3	2	2	2	
CO 3	2	2	2	2	2	1	2	3	2	2	3	1	2	2	
CO 4	2	3	2	_	2	2	2	3	2	2	2	1	2	2	
CO 5	2	2	2	2	2	1	2	3	2	2	3	2	2	2	
Avg	2	2.6	2	1.2	2	1.2	2	3	2	1.2	2.6	1.8	2	2	

CY3205	Title:Environmental Studies	LTPC 2 002
VersionNo.	1.0	
CoursePrere quisites	Nil	
Objectives	The aim is developinguiring minds and curiosity abouts cience and the natural world. It will help students to think an alytically, critically and creatively to solve problems, judge arguments and make decisions inscientificand other contexts. Making students awarehow to protect the Environment.	
Expected Outcome	SafeguardingtheEnvironmentandalsodevelopawarenesstotheSocietynottofurther deteriorateit andalsosafeguardit	
UnitNo.	UnitTitle	No.ofhours(perUnit)
UnitI	IntroductiontoEnvironmentalStudies&Ecosystems	5
	nmentalStudies,ScopeandImportance,Needforpublicawareness.Whatisanecosystem?Structure.Casestudiesofthedifferentecosystemslikeforest,grassland,desertandaquaticecosystems.	reand
UnitII	Natural Resources	6
usechange;Landdegra exploitationofsurfacea droughts,conflictsove	enewableResources,Landresourcesandland- dation,soilerosionanddesertification.Deforestation:Causesandimpacts.Water:Useandover- andgroundwater,floods, rwater(international&inter-state).Energyresources:Renewableand cources,useofalternateenergy.sources,growingenergyneedsandcasestudies.	
UnitIII	Media &EnvironmentalDisaster	6
and global biodiversity nation; Endangeredand wild life conflicts, biolo	I diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Bio hotspots.Indiaasar dendemicspeciesofIndia.Threatstobiodiversity:Habitatloss,poachingofwildlife,man- ogicalinvasions;Conservationofbiodiversity. ersityservices:Ecological,economic,social,ethical,aestheticandInformationalvalue. EnvironmentalPollution	
	ndcontrols; Air, water, soiland noise pollution. Nuclear hazards and human healthrisks. Solidwast	~
	measuresofurbanandindustrialwaste.	C
TextBooks	1. P. CJoshi&Namita JoshiATextBookofEnvironmental Science, A.P.H.Pub.Ne 2. DrB. SChauhanEnvironmentalStudies, Laxmi Publication.	wDelhi.
ReferenceBooks	 AnubhaKaushik&C. P. KaushikEnvironmentalStudies,NewAgeInternation MishraD.D.,fundamentalconceptinenvirmentalstudies,SChand&Compa N.Arumugam,EnvironmentStudies(UCGsyllabus), Saraspublication MahuaBasu,FundamentalsofEnvironment studies,Cambridgeuniversitype 	ny
ModeofEv	InternalandExternalExamination	
aluation		
Recommendation by Board ofStudies on	15/06/2020	
Dateofapproval		



CourseOutcomeForCY3205

CourseOutcomer	01010200		
Unit-wise CourseOutcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/Entrepreneurship (Ent)/ None(Use _x formorethan One)
CO1	UnderstandthenatureofEnvironmentalstudies&Ecosystem.	2	Emp
CO2	Studentwilltounderstandthenaturalresources, i.e. Renewable&n onrenewableresources.	2	S
CO3	Understandthelevelofbiologicaldiversity&conservation.	2	S
CO4	Studentswillabletounderstandthetypesofenvironmentalpolluti on.	3	Ent
CO5	Students will able to understand the concept of sustainability&sustainable development.	5	None

CO-POMappingforCY3205

Course Outcomes	Progr	am Outc	erate-	Program Specific								
Outcomes			Outcomes									
	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10										PSO2
CO 1	2	1	2	0	0	0	2	1	0	0	1	1
CO 2	2	1	2	3	1	1	2	2	1	1	3	2
CO 3	2	2	1	1	1	2	1	1	3	2	0	3
CO 4	1	1	1	1	2	0	2	1	2	1	1	1
CO 5	1	1	1	3	3	2	3	3	2	1	3	3
Avg	1.6	1.2	1.5	1.6	1.4	1.25	2	1.6	1.6	1	1.6	2



AN3201	Title:2d digital animation	L T P C
X7 • X 7	1.0	2 0 4 4
Version No.	1.0	
Course Prerequisites	Nil	
Objective	This subject aims to make student understand the 2d animation process.	
Expected Outcome	On completion of this course, the student should be able to create various anima	itions in 2d.
Unit No.	Unit Title	No. of Hrs
Unit I	Workspace overview	10
Interface of Animate Pane	ls (property inspector, library panel, movie explorer, history panel, color panel, ti	imeline.
Unit II	Using stage and tools panels	10
Selecting and deselecting stage of the interface.	objects on the stage, tool box, overview, creating graphic objects on stage.differ	erent features on
Unit I II	Working with flash document	11
About flash files, working with libraries and its item,	with project, importing art work into flash, working with PSD files, PSD file implayer system.	oort, working
Unit IV	Drawing basics	10
	images, flash drawing techniques, overlapping shapes, drawing with pen tool, b raditional drawing and sketching,	rush tool, pencil
Unit V	Creating Animation	9
	g motion, creating key frames, timeline effects, frame rate, frame by frame ani g.creating human walk, animal walk, create bouncing ball.	mation, creating
Text Books	Animation survival kit	
Reference Books	Adobe flash professional CS classroom in a book (by adobe creative team) Ado Adobe flash CS6 in simple steps (by Kogent learning solutions Incdream tech	
Mode of Evaluation	Internal and External Assessment	
Recommended by Board of Studied on	11-06-2019	
Date of Approval by the Academic Council on	13/07/2019	



Course Outcome ForAN3201

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the workspace of flash software with proficiency and work on any version of the software if needed.	4	none
CO2	Understand the use of stage and different panels.	3	S
CO3	Understand the working in flash documents in the animation software.	3	S
CO4	Understand the basics of vector and raster graphics, different format of flash and Photoshop files.	3	Ent
CO5	Understand, implement and apply the artistic skills in a way that contributes to the global development of the animation industry.	3	Emp

CO-PO Mapping for AN3201

Course	P	Program Outcomes (Course Articulation Matrix											Program Program		
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not										Specific Education			nal	
mes					relate	ed-0)					Outc	omes	О	utcome	es
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	О3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3
CO 1															
COT	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2		2		2	1	3	1	3	3	2	3	3	2	3
CO 3	2	2	0	0	2	0	0	1	3	2	0	1	2	3	1
CO 4	2	2	3	2	2	3	2	2	2	1	2	2	3	0	2
CO 5	3	1		3	1	2	2	3	1	1	3	3		2	2
Avg				1.7											•
	2.4	2	2	5	2	1.6	1.6	1.8	2.2	2	2	2.4	2.5	1.8	2



AN3202	Title: Film Production	L T P C 4 0 0 4			
Version No.	1.0				
Course Prerequisites	Nil				
Objectives	The course will help the student to understand the concept of Film Production.				
Expected Outcome	On completion of the course student will understand the Film Production techniques and will be able to create their own short film.				
Unit No.	Unit Title				
Unit I	Language of cinema	11			
	Continuity Editing, Montage, Focus on Sound and Color: Diegetic and Sound; the use of Color as a stylistic Element. movie format and				
Unit II	Types of Cinema	12			
Third Cinema, Non fiction parallel cinema,	n cinema, Early cinema, development of classical Hollywood cinema	a. Studio era,			
Unit III	Indian Cinema	13			
	ndio Era, 1950s - Cinema and the Nation (Guru Dutt, Raj Kapoor, M n, Globalization and Indian Cinema.	Iehboob), 1970s -			
Unit IV	Production techniques-I	12			
	ding Concept, Character descrption and designing, Storyboarding tests, designing a short film on paper.	chniques,			
Text Books	1. Keval J. Kumar, Mass communication in India, Jaico.				
Reference Books	 Renu Saran, History of Indian cinema, Kindle editi Sarkar N.N. Dvesigning Print Communication, Sa 				
Mode of Evaluation	Internal and External Assessment				
Recommendation by Board of Studies on	11-06-2019				
Date of approval by the Academic Council	13/07/2019				



Course Outcome For AN 3202

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Student will be able to understand the language of cinema	2	S
CO2	Students will able to understand the concept of reporting and the beats in reporting; Political, Crime, Sports etc.	2	S
CO3	Students will able to understand the work functions of news room and its operations.	2	S
CO4	Understand the process of editing in print media; newspapers, magazines etc.	2	Ent
CO5	Understand & Investigate the facts from various sources and able to prepare questions for a specific interview; rewrite news stories from newspapers on national and international issues.	5	Emp

CO-PO Mapping for AN3202

Course	Program Outcomes (Course Articulation Matrix										Program Program			n	
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not										Spec	cific	Ed	lucation	nal
mes					relate	ed-0)					Outco	omes	O	utcom	es
	P	PO	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	01	O2	О3
CO 1	3	3	1	2	3	2	1	2	2	3	2	3	1	2	2
CO 2	2		2	0		1	3		3		2	3	3	1	2
CO 3	2	2	0	0	2	1	0	3	2	2	0	0	3	3	1
CO 4	2	1	3		2	3	2	2	1	2	2	2	3	0	2
CO 5	3	1		3	1	2	2	3	2	1	3	3	0	3	3
Avg		1.7		1.2											
	2.4	5	1.5	5	2	1.8	1.6	2.5	2	2	1.8	2.2	2	1.8	2



GD3202	Title: Advance graphic Design for Animation	L T P C 3 0 2 4
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	This Subject is designed to introduce students about advanced graphic designing technique	
Expected Outcome	On completion of this course student should be able to create more complex graphic designs.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Introduction to illustrator	11
	software, interaction with interface, workspace, how to import or exvector art, advantages over raster graphics.traditional drawing pract	
Unit II	Creating vector art forms (Photoshop/illustrator)	9
Create characters, backgrouphotoshop, sketching all the	bunds, environments, design vehicles in vector form, Create difference the characters on paper.	nt art works in
Unit III	Digital concept art (Photoshop/illustrator)	9
Create a hyrid character, with background origin s	design a cartoon character, both story.	
Unit IV	Color theory	10
	re cutout of some images, colour adjustment of some images, colour red images into black and white, placing different background for the	
Unit V	Digital design assignments assignments	8
	ters, vector art backgrounds, 1 digital painting-portrait, 1 props des nal drawing of different geometric shapes	ign, 1 digital
Text Books	Animated Storytelling	
Reference Books	Photoshop CS6 in simple steps (by Kogent learning solutions Inc press)	dream tech
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	



Date of approval by the Academic Council	13/07/2019
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Course Outcome ForGD3202

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the classical animation using traditional methods.	2	Emp
CO2	Create 2d animation drawings with character expressions.	2	S
CO3	Understand & apply design tools and create sketches.	1	S
CO4	Understand the graphic designers drawing Tools.	6	Ent
CO5	Analyze the composition technique and create poster layouts.	2	Emp

CO-PO Mapping for GD3202

Course	P	rogra	m Ou	tcome	es (Co	urse A	ix	Prog	gram	P	rogran	n			
Outco		(Highly Mapped- 3, Moderate- 2, Low-1, Not										Specific Educational			nal
mes					relat	ed-0)					Outc	omes	O	utcome	es
	P	P	P	P	P	PO	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	0	2	2	2	3	3	2	3	3	2	3	3	2	3
CO 3	2	3	2	0	2	3	0	1	0	2	0	0	2	3	1
CO 4	2	2	3	2	2	1	2	2	2	3	2	2	2	1	0
CO 5	3	1	0	3	1	2	3	3	3	1	3	3	2	2	3
Avg	2.4	1.8	2	1.8	2	2.2	1.8	2	2	2.4	2	2.2	2.2	2	1.8



AN3203	Title: Introduction to classical animation	L T P C 3 0 0 4
Version No.	1.0	



Course Prerequisites	Nil	
Objectives	The aim of this course to provide knowledge of classical 2d animation	
Expected Outcome	On completion of the course students should be able to : Draw and understand 2d animation.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Basic of 2d animation	10
	imator's drawing tools, difference between 2d and 3d animation, st . History of classical animation, importance of 2d artist.	op motion
Unit II	2d animation drawing	10
	life drawing, still life, environment study, observational drawing, audy, basic proportions of male and female anatomy.	using geometric
Unit III	Understanding poses	9
	xegerating different human poses in action, drawing linces, circles, wings, animal and human poses and gestures.	zig zag lines.
Unit IV	Animation	8
	up exercises, drawing from memory, observation and imagination, on the expressions. Walk cycle.	creating
Unit V	Drawing assignments	10
Create 5 pages of figure dr construction.	rawing, 5 pages of quick poses, draw 5 pages of eyes, hands, arms a	and foot
Text Books	Animation survival kit	
Reference Books	The everything drawing book: from basic shapes to people and a south).	nimal (by-Helen
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the classical animation to different poses	2	Emp
CO2	Create the 2d animation drawings with character expressions	2	S
CO3	Understand & apply principles of animation for frame by frame animation.	2	S
CO4	Understand the animator's drawing tools in Character designing.	3	Ent
CO5	Understand human anatomy study and create different figure drawings.	5	None

Course	P	Program Outcomes (Course Articulation Matrix								Prog	gram	P	rogran	n	
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not								Spe	cific	Ed	ucation	nal		
mes					relate	ed-0)					Outc	omes	Outcomes		
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	O7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2		1	1	2	1	2	2	3	1	2	0	3	2	3
CO 3	0	2	1		2	3	2	2		2	2	0	1	3	1
CO 4	2	2	3	2	3	3	2	3	3	1	2	2	3	3	3
CO 5	3	2	1	3	1	0	3	2	1	3	3	3		2	2
Avg		2.2							2.2						
	2	5	1.8	2	2.2	1.8	2	2.2	5	2	2.4	1.6	2.25	2.4	2.2



VP3212	Title: Audio Editing	L T P C 0 0 4 2							
Version No.	1.0	0042							
Course Prerequisites	Nil								
Objectives	This course is designed to introduce the Audio-video editing yo the students								
Expected Outcome	Expected Outcome On completion of the course students should be able to: understand and create editing projects.								
Unit No.	Unit Title	No. of hours (per Unit)							
Unit I	Introduction to Editing	11							
compression.Introduction	o software, workflow, adding footage, frame rates, aspect ratio, all typa audition, Audio Clip, Manipulating audio, Auto trim/crop, mute, DC of Fade in/out, insert silence, bit depth converter etc.								
Unit II	Digital audio principle	9							
Understanding audio form formats like .WAV, .AIFF	ats, audio output, progresive Vs interlaced, Understanding various dig	ital audio							
Unit III	Basic audio editing	8							
clips, Moving edited clip. (attack/sustain/release), etc	it, Layers, Ripple edit, Razor tool, Understanding all tools on toolbox Event tool: move, split, slip and trim multiple events, create fades, apple. Understanding script editor window. Spectrum analysis tools, scrub DC offset, zero crossings), sampler tool etc.	oly ASR							
Unit IV	The art of audio editing	10							
narration content. Audio e envelopes. Edit, record, en	job availability, pacing, When and how to apply, estalishing the portiditing: workflow, real time editing, event based editing, waveform vo acode and master digital audio, editing audio by drag and drop options and levels, creating smooth fades etc. Understanding Multichannel auteo Creating audio effects	lume and pan , cross fading							
Applying various types of	audio transitions, blur, noise, speeding the audio, various audio effect	S.							
Text Books	Digital Audio Editing: Correcting and Enhancing Audio in Pro Pro, Cubase, and Studio One	Tools, Logic							
Reference Books	Adobe premiere pro CS6 classroom in a book (by adobe creative tea	m) Adobe press							
Mode of Evaluation	Internal and External Assessment								
Recommendation by Board of Studies on	11-06-2019								



Date of approval by the Academic Council	13/07/2019
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Course Outcome For VP3212

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the audition software	2	Emp
CO2	Create various digital audio formats.	2	S
CO3	Apply the Editing Tools.	2	S
CO4	Create the Editing Work flow.	3	Ent
CO5	Create final output audio.	5	None

CO-PO Mapping for VP3212

Course	P	Program Outcomes (Course Articulation Matrix										gram	F	rogran	n
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not								Spec	cific	Ed	ucation	nal		
mes					relat	ed-0)					Outco	omes	О	utcom	es
	P	P	P	P	P	PO	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	0	2	2	2	1	3	0	3	3	2	3	3	1	3
CO 3	1	2	1	0	3	1	2	3	2	2	1	2	2	3	1
CO 4	2	3	3	3	0	3	2	3	2	0	2	2	3	2	2
CO 5	1	1	1	3	1	2	3	3		1	3	3	1	2	1
Avg									2.2						
	1.8	1.8	2	2	1.8	1.8	2.2	2.2	5	1.8	2.2	2.6	2.2	2	1.8



Second year

Semester-3

AN3301	Title:3-D Modelling&3-D Texturing	L T P C 1-0-4-3
Version No.	1.0	
Course Pre requisites		
Objectives	Study of this subject will familiarize the students with the Modellingand texturing in3d	
Expected Outcome	On completion of the course student should be able to: Develop a 3d model, Texture it and understand the importance of lighting.	
Unit No.	UnitTitle	No.ofhours (perUnit)
Unit I	Introduction to Maya	14
The Maya Interface, Viewports	s, Selecting Objects, Transforming Objects, Connecting Objects, Managing Files. May	va Preference
Unit II	Mismodeling	08
Creating the NURBS Curves in	n Maya, Modellingusing NURBS, NURBS Patches in Maya. Surface Editing tools.	
Unit III	Polygonal Modeling	08
Creating Polygonal Surfaces, N	Modifying Polygonal Surfaces, Modellingusing Polygonal Method. Deformers for mod	leling
Unit IV	Lighting	05
The Importance of Lighting, Ty	pes of Lights, Shadows, Lighting Effects, Lighting a Scene. Basic Exterior & interior	lighting
Unit V	Creating Textures	10
	Shaders, The Hypershade, Textures, Bump and Displacement Mapping, Placing Textu Textures, Map for game Assert.	ires,
Text Books	Maya®ataGlancebyGeorgeMaestri	
Reference Books	Introducing Maya 2017by DariushDerakhshani	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand 3d views and user interface of maya.	2	Emp
CO2	Create 3d basic objects using NURBS tools.	2	S
CO3	Create 3d basic objects using polygon tools.	2	S
CO4	Understand importance of lighting.	3	S
CO5	Understand basic of texturing.	5	None

Course	P	rogra	m Out	come	s (Co	Prog	gram	P	rogran	n					
Outco		(High	ly Ma	pped-	- 3, M	odera	te- 2,	Low	-1, No	ot	Spec	cific	Ed	ucation	nal
mes					relate	ed-0)					Outco	omes	O	utcom	es
	P	P	PO	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3
CO 1															
COT	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	2	1	3	1	3	3	2	3	3	2	3
CO 3	1	2	0	0	2	0	0	1	0	2	0	0	2	3	3
CO 4	2	2	3	2	2	3	2	2	2	1	2	2	3	0	0
CO 5	3	0	1	3	1	2	3	3	2	1	3	3	0	2	2
Avg	2.2	1.8	1.8	2	2	1.6	1.8	1.8	1.8	2	2	2.2	2	1.8	2



	Title:3D-Character Design	LTPC
		1-0-4-3
Version No.	1.0	
Course Pre requisites	Nil	
Objectives	Study of this subject will familiarize the students with how to form a character in 3d	
Expected Outcome	Oncompletion of the course student should be able to: Develop 3d Character with the knowledge of rigging for animation in Maya.	
Unit No.	Unit Title	No. of hours(per Uni)
Unit I	Fundamental of character design	6
	Understand and design, the different character styles and character types, Dev character, Draw the 2d character for 3d modeling	relop the
Unit II	Modelling and Texturing the character	10
	olygons, Modellingwith Polygon Tools, Working with Symmetry, Using Imag Develop the easy way to working with 3d Application.	ge Planes,
Unit III	Modelling and Texturing the character using sub division	9
Concepts of Modellingwi Techniques for Texturing	th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivision	ponents,
Concepts of Modellingwi Techniques for Texturing a low poly character for g	th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivision	ponents,
Concepts of Modellingwi Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hum	th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivision saming pipeline.	ponents, n Surfaces,Create 10 so and Limbs,
Concepts of Modellingwi Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hum Shaping and Refining the	th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivision saming pipeline. Designing a Humanoid an Anatomy for Modelers, Methods and Tools, Modelling the Humanoid Tors	ponents, n Surfaces,Create 10 so and Limbs,
Concepts of Modellingwi Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hum Shaping and Refining the Unit V Deformers, Blend Shapes	th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Computed Subdivision Surfaces, Designing and Modelling a Character with Subdivision saming pipeline. Designing a Humanoid an Anatomy for Modelers, Methods and Tools, Modelling the Humanoid Torso and Limbs, The Anatomy of the Face, Study the human head and anatomy of the Face, Study the human head anatomy of the Face, Study the human head and anatomy of the Face	ponents, n Surfaces,Create 10 so and Limbs, omy
Concepts of Modellingwi Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hum Shaping and Refining the Unit V Deformers, Blend Shapes application.	th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Computed Subdivision Surfaces, Designing and Modelling a Character with Subdivision saming pipeline. Designing a Humanoid an Anatomy for Modelers, Methods and Tools, Modelling the Humanoid Tors Torso and Limbs, The Anatomy of the Face, Study the human head and anatomy Deformations and Rigging	ponents, n Surfaces,Create 10 so and Limbs, omy
Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hum Shaping and Refining the Unit V	th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Computations Surfaces, Designing and Modelling a Character with Subdivision saming pipeline. Designing a Humanoid an Anatomy for Modelers, Methods and Tools, Modelling the Humanoid Tors Torso and Limbs, The Anatomy of the Face, Study the human head and anatomy Deformations and Rigging Skeletons and Rigging, Creating Skeleton. Draw the required blend shape be	ponents, n Surfaces,Create 10 so and Limbs, omy



Recommendation by Board ofStudieson	11-06-2019
Date of approval by the Academic Council	13/07/2019

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand character design fundamental.	2	Emp
CO2	Create 3d character using polygon tools.	2	S
CO3	Create concept 3d character using surface tools.	2	S
CO4	Understand human anatomy and create 3d human model.	3	Ent
CO5	Understand basic rigging.	5	Ent

Course	P	rograi	n Ou	tcome	s (Co	ix	Prog	gram	Program						
Outco	(Hig	(Highly Mapped- 3, Moderate- 2, Low-1, Not related-											Educational		
mes					0)					Outc	omes	О	utcome	es
	P	PO	P	PO	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	2	О3	4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1															
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	2	3	3	2	2	3	2	3	0	2	3
CO 3	2	3	3	0	3	0	3	3	3	0	1	1	2	3	3
CO 4	0	2	0	3	2	3	0	2	2	3	2	2	3	0	3
CO 5	3	0	3	3	0	2	3	0	0	3	3	3	1	3	2
Avg	2	2	2.2	2.2	2	2	2	1.8	1.8	2.4	2.2	2.4	1.6	2	2.6

B.Sc. Animation & VFX V 2019

AN3303	Title:Print Media	LTP C 2-0-0-2
		2-0-0-2
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	To make students aware of the various aspects of news	
ExpectedOutcome	Students will learn the different aspects of news content and presentation skills.	
Unit No.	UnitTitle	No.ofhours(pe rUnit)
Unit I	Introduction of News	8
News, Meaning&Definition	, Elements & Types of News, News Value, Selection of news, News Sources, Ob	jective of News
UnitII	Challenges before Media	8
	dia, Comparison between online media & print media, Criteria for good news	•
UnitIII	Presentation	8
Use of Illustrations in New Page, Page 3 Case Study	spaper, Design, Cartoons, Line Diagrams ,Style of Presentation of Newspaper	& Magazine, Editorial
UnitIV	Pagination & Layout	8
Practical Layout of Newspa	per &Magazine, Creation of Newspaper &Magazine on Quark Express &InDesig	n
UnitV	Designing of page	8
Designing of Page of Newsp	paper Magazines	
Textbooks		
Textours	Handbook of Print Media: Technologies and Production Methods	
Reference Books		
ModeofEvaluation	InternalandExternal Assessment	



DateofapprovalbytheAca demicCouncil	13/07/2019

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Student should able to remember about definition of news & memorize it.	2	Emp
CO2	Student should able to analyze structure of news & also about types of news	2	S
CO3	Student should able to memorize about responsibilities of reporter	2	S
CO4	Student should able to understand about lead & inverted Pyramid style	3	Ent
CO5	Student should able to design newspaper and magazine	5	None

Course	P	Program Outcomes (Course Articulation Matrix										gram	Program		
Outco	((High	ly Ma	pped	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spec	cific	Educational		
mes					relate	ed-0))				Outc	omes	Outcomes		
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	01	O2	O1	O2	О3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3	1	3	0	2	3	0	3	0	3	0	1	2	2	3	3
CO 4	0	2	1	3	2	3	1	3	2	3	2	2	3	3	3
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	3	2
Avg	1.8	2.2	1.8	2.2	2	2	2.2	1.8	2.2	2	1.8	2	2	2.2	2



AN3304	Title: Motion Graphics& Compositing	L T P C 1-0-4-3					
Version No.	1.0						
Course Prerequisites	Nil						
Objectives	Study of this subject will familiarize the students with art of Motion graphics and that it is pieces of animation or digital footage which create the illusion of motion or rotation, and are usually combined with audio for use in multimedia projects.						
Expected Outcome	On completion of the course student should be able to: Create motion graphics with the use of a digital software such as after effects.						
Unit No.	Unit Title	No. of hours (per Unit)					
Unit I	Introduction	9					
	mposition, Viewport and Timeline, Animation and Transform Properties, Shape Lyer option in the timeline panel.	ayer, Masks					
Unit II	Animation Principles and Types of Key frames and Graph Editors	10					
Principles of Animation, Ty	pes of Key frames, and Graph Editors, Speed Graph & Value Graph for motion gra	aph					
Unit III	Shape Modifiers from A to Z	9					
Merge Path, Offset Path, Pu	cker& Bloat, Round Corner, Trim Path, Wiggle Path, ZigZag, Repeater and Wiggl	er, expression					
Unit IV	Text Animation	9					
Understanding different type effects.	es of text animation and animation techniques ,Working with walk cycle animation	in After					
Unit V	Modern Data Visualization and Practice with Real projects	8					
Animation Techniques, Mor	phing Animation, Lettering Animation and Real Projects ,Effects Animation						
Text Books Animated Storytelling by Liz Blazer is an excellent resource on general animation. This book talks about the basics of motion graphics and how animation works from the viewer's perspective.							
Reference Books	Reference Books 1. Disney Animation: The Illusion of Life Book by Frank Thomas and Ollie Johnston 2. The Animator's Survival kit by Richard Williams						
Mode of Evaluation	Internal and External Assessment						
Recommendation by Board of Studies on 11-06-2019 11-06-							



Date of approval by the Academic Council

13/07/2019

Course Outcome For AN 3304

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the basics of Composite.	2	Emp
CO2	Understand the use of types of key frames and graph editors.	2	S
CO3	Create different text animation.	2	S
CO4	Understand different principles of animation	3	Ent
CO5	Create motion graphics projects.	5	None

Course	P	rograr	n Out	come	s (Co	urse A	Articu	lation	Matı	ix	Prog	gram	P	rogran	n	
Outco		(High	ly Ma	pped-	- 3, M	odera	te- 2,	Low	-1, No	ot	Spec	cific	Ed	lucation	ucational	
mes		related-0)								Outc	omes	O	utcom	es		
	P	PO	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE	
	O1	2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3	
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2	
CO 2	2	2	2	3	3	0	3	2	2	3	0	0	1	0	0	
CO 3	1	0	0	2	3	3	3	3	1	0	1	2	2	2	3	
CO 4	2	2	2	0	0	3	1	3	2	3	2	1	1	3	2	
CO 5	3	2	3	3	2	3	3	2	2	1	3	3	3	3	2	
Avg	2.2	1.8	2	2	2.2	2.2	2.2	2.4	1.8	2	1.8	1.8	1.8	2	1.8	



AN3305	Title: Compositing for VFX	L T P C 1-0-4-3
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	This course is designed to help student learn and understand Visual Effects Compositing using a digital software. I.e. After Effects	
Expected Outcome	On the completion of the course students will be able to understand Visual effects and the art of compositing.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Introduction to After Effects	9
Creating a new compositi	on, Video Formats, Nesting and Pre-composing, layer effects	
Unit II	Understanding Graph Editor	9
Types of Graph Editors, T	Text layers, Shape layer	
Unit III	Rotoscopy	9
Masking and Rotoscoping	g, Track Matte, Chroma Key and Wire removal expressions	
Unit IV	Introduction to Mocha	9
Tracking, Mocha, Expres	sions and Time remapping	
Unit V	Compositing	10
Color correction, Multi pa	ass compositing, particles and 3d layers and camera, Camera Animation.	
Text Books	Adobe After Effects CS5 Visual Effects and Compositing studio technic Christiansen	ques by Mark
Reference Books	 After Effects Apprentice by Chris and Trish Meyer Creating Motion Graphics with After Effects, 5th edition by Chris Meyer 	er
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	

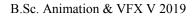


Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand user interface of after effect.	2	Emp
CO2	Understand graph editor.	2	S
CO3	Apply Track Matte and remove chroma key.	2	S
CO4	Apply tracking on video footage.	3	Ent
CO5	Create motion graphics projects.	5	Emp

Course	P	rograr	n Out	come	s (Co	urse A	Articu	lation	Matı	ix	Prog	gram	P	Program	
Outco		(High	ly Ma	pped-	- 3, M	odera	te- 2,	Low	-1, No	ot	Spec	cific	Ed	ucational	
mes		related-0)							Outco	omes	O	utcom	es		
	P	PO	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	2	2	2	3	0	3	3	1	0
CO 3	1	3	1	2	3	0	3	1	0	0	3	2	2	3	3
CO 4	2	2	3	3	2	3	1	3	2	3	2	2	0	3	3
CO 5	3	1	0	1	2	3	3	1	3	3	3	1	3	3	3
Avg	2.2	2.2	1.8	2.2	2	2	2	1.8	1.8	2.4	2.2	2.2	2	2.4	2.2



VP3315	Title: Video Editing	L T P C 0-0-4-2
Version No.	1.0	
Course	Nil	
Prerequisites		
Objectives	This course is design to familiarize our students all the basics of Video editing.	
Expected Outcome	On completion of the course students should be able to: understand to video editing	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Intro to Editing Theory	9
	nistory of film editing, the manipulation of editing, introduction to the editor arrative structure., Study about pre-production	r as storyteller,
Unit II	Intro to Premiere Pro Cs6	9
footage	ples, The Premiere Pro CS -6 interface, features and functions, how to important places, Learn about Footage File extension.	rt and organize
Unit III	Editing Exercise -Lab-1	9
	schnique, Practicing/Reviewing skills, New Editing make slow motion technice projects, Interview and Film a classmate telling a story for 10 minutes on	
Unit IV	Editing Exercise-Lab-2	6
"Motion Tracking & Editing	Technique,Intro making ,Working on Documentary projects, Linear Edit	ing & nonlinear
Unit V	Editing Exercise-Lab-3	6
Color Editing, how	to change whole feet age change color, audio input & audio editing, Broad	cast setting
Text Books	Adobe Premiere 6.0: Classroom .Link(https://www.amazon.in/Adobe-Pre ClassroomBook/dp/0201710188/ref=sr_1_38?dchild=1&keywords=Adob + book&qid=1601795878&sr=8-38)-Adobe Creative Team (Author)	
Reference Books	E book, YouTube Chanel	
Mode of	Internal and External Assessment	
Evaluation		
Recommendatio n by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	







Course Outcome ForVP3315

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)		
CO1	Understand the workspace of premier pro software with proficiency	2	Emp		
CO2	Understand the use of workspace and different panels.	2	S		
CO3	Understand the working in premier pro documents in the animation software	2	S		
CO4	Write the different formats of audio and video files.	3	Ent		
CO5	Understand, implement and apply the artistic skills in a way that contributes to the global development of the animation industry.	5	None		

CO-PO Mapping for VP3315

Course	P	rograi	m Out	tcome	s (Co	urse A	Articu	lation	Matr	ix	Prog	gram	P	rogran	n
Outco	(Hig	hly M	lappe	d- 3, N	Moder	ate-2	2, Lov	v-1, N	ot rel	ated-	Spe	cific	Ed	Educational	
mes		0)							Outc	omes	O	utcome	es		
	PO	P	P	PO	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	1	O2	O3	4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3	1	3	3	2	3	1	3	0	0	1	0	2	2	3	3
CO 4	2	1	1	3	2	3	1	3	2	3	3	1	3	3	3
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	1	2
Avg	2.2	2	2.4	1.8	2	2.2	2.2	1.8	1.6	2.2	1.8	1.8	2	1.8	2



Semester-4

AN3401	Title:3d Architectural Visualization	L T P C 2-0-4-4
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	Study of this subject will familiarize the students with the Role of Architectural Visualization in 3d	
Expected Outcome	On completion of the course students should he able to: Develop understanding of different architectural models	
Unit No.	No. of hours (per Unit)	
Unit I	DrawingBasics	
Unit II Rendering &Presentation, and table, Rules of Archite	ArchitectureDesign Principal of Planning, Method of Drawing, Rules & regulation, General acture in Designing and approach of planning, Building types, Zoning Ron& usages of Digital Image, Image Mapping, Viewing Animation	
Unit III	3DsMax as of 3Ds Max, UCS Co-ordination System, Shortcut keys, Function key and drawings	ys.
Unit III Introduction & Application understanding floor plans a	ns of 3Ds Max, UCS Co-ordination System, Shortcut keys, Function ke	ys.
Unit III Introduction & Application understanding floor plans a Unit IV Introduction of Modeling,	ns of 3Ds Max, UCS Co-ordination System, Shortcut keys, Function ke	ce vertex
Unit III Introduction & Application understanding floor plans a Unit IV Introduction of Modeling, weld Modifier, Scene – But measurement in 3d Unit V	Modeling Features of Modeling., Modifiers – Bend Modifier, Extrude, and Surfactilt a 3D environment with material, light and cameras. Units setup and Texturing & Lighting	ce vertex
Unit III Introduction & Application understanding floor plans a Unit IV Introduction of Modeling, weld Modifier, Scene – But measurement in 3d Unit V Different types of Texture,	Modeling Features of Modeling., Modifiers – Bend Modifier, Extrude, and Surfacilit a 3D environment with material, light and cameras. Units setup and	ce vertex
Unit III Introduction & Application understanding floor plans a Unit IV Introduction of Modeling, weld Modifier, Scene – But measurement in 3d Unit V Different types of Texture,	Modeling Features of Modeling., Modifiers – Bend Modifier, Extrude, and Surfactilt a 3D environment with material, light and cameras. Units setup and Texturing & Lighting render to texture tool, Various scene elements into texture, Lighting, Units Setup and Surfactile Company of the Comp	ce vertex
Unit III Introduction & Application understanding floor plans a Unit IV Introduction of Modeling, weld Modifier, Scene – But measurement in 3d Unit V Different types of Texture, Lighting, Types of light Ca	Modeling Features of Modeling., Modifiers – Bend Modifier, Extrude, and Surfactilt a 3D environment with material, light and cameras. Units setup and Texturing & Lighting Tender to texture tool, Various scene elements into texture, Lighting, Unitegories of lighting situation. Render elements, post processing.	ce vertex
Unit III Introduction & Application understanding floor plans a Unit IV Introduction of Modeling, weld Modifier, Scene – But measurement in 3d Unit V Different types of Texture, Lighting, Types of light Ca Text Books	Modeling Features of Modeling., Modifiers – Bend Modifier, Extrude, and Surfactilt a 3D environment with material, light and cameras. Units setup and Texturing & Lighting render to texture tool, Various scene elements into texture, Lighting, Unitegories of lighting situation. Render elements, post processing. 1. Autodesk 3ds Max for Beginners A Comprehensive Guide	ce vertex



Date of approval by the	13/07/2019
Academic Council	

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand drawings tools and create blueprints.	2	Emp
CO2	Understand blueprints and create 3d architectures buildings	2	S
CO3	Understand 3ds max interface, coordinate system and remember shortcuts keys.	2	S
CO4	Create 3d objects and apply materials, light and cameras in 3d scenes.	3	Ent
CO5	Create textures and apply photorealistic light.	5	None

Course	P	Program Outcom			es (Co	urse 1	Articu	ılatior	n Matı	ix	Prog	gram	Program		
Outco	((High	ly Ma	ipped-	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Ed	ucation	nal
mes					relate	ed-0))				Outc	omes	Outcomes		
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	1	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3	2	3	3	1	3	1	3	1	0	1	2	2	2	3	1
CO 4	2	2	1	3	2	3	3	3	2	0	1	1	3	0	3
CO 5	3	1	3	1	3	1	3	2	3	3	2	3	2	3	2
Avg	2.2	2.2	2.4	1.6	2.2	1.8	2.6	2	1.8	2	1.6	1.8	2	1.6	1.6

AN3402	Title:3DShading, Lighting & Rendering	LTPC
		1-0-4-3



Version No.	1.0	
Course Prerequisites	Nil	
Objectives	Study of this subject will familiarize the students with the	
Objectives	Shading, Lighting & Rendering in 3d	
Expected Outcome	On completion of the course student should he able to: Develop a	
	3d model, with texture, shading and lighting.	
Unit No.	Unit Title	No. of
		hours (per
		Unit)
Unit I	Maya Modeling overview	6
Creating primitive objects	Moving Objects in the 3D Space, Maya View Tools, Layouts, Saved I	avoute
	ators, Grouping and Parenting, Polygonal modeling, NURBS Modellin	
hypergraph		.g. c,
Unit II	Rendering Overview	10
	Tendering 6 (6) (10)	
	aya renders, Shader Networks, Shading Groups, Materials, Lights, Ma tributes, Hyper Graph, IPR (Interactive Photo realistic Rendering)Con	
UDIM	urbutes, rryper Graph, TFK (Interactive Filoto realistic Kendernig)Con	icepis of
Unit III	Lighting	10
		J
	ach, techniques for each, Light Linking, New linking to Objects (and s	
	111.i	
i and wny – snow maniniilat	linking – matching live footage lighting, Light attributes – What you'	
	ors, Light Fog, Intensity Curves, 3 point light system	re adjusting
unit IV		
Unit IV Depth map, What, When a	ors, Light Fog, Intensity Curves, 3 point light system Shadows nd Why to use, Reuse / Share depth maps, Ray traced, What, When and	8 d why to
Unit IV Depth map, What, When as use Shadow Techniques (F	Shadows May to use, Reuse / Share depth maps, Ray traced, What, When and or realism and Optimization), Adding hard or soft shadows to a scene,	8 d why to
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble –	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer	8 d why to Shafts of
Unit IV Depth map, What, When as use Shadow Techniques (F	Shadows May to use, Reuse / Share depth maps, Ray traced, What, When and or realism and Optimization), Adding hard or soft shadows to a scene,	8 d why to
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material of	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials:	8 d why to Shafts of 10 terials pt1:
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics Trouble – In the control of the con	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials pt2: sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	8 d why to Shafts of 10 terials pt1: sellac,
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics To varnishes and rust Self illustrations Self illustrations Self illustrations To varnishes Self illustrations Self ill	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials:	8 d why to Shafts of 10 terials pt1: sellac,
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics Trouble – In the control of the con	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials pt2: sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	8 d why to Shafts of 10 terials pt1: sellac,
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics To varnishes and rust Self illustrations Self illustrations Self illustrations To varnishes Self illustrations Self ill	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials pt2: sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-surface scattering Mixing materials, shadows to a scene, where the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	8 d why to Shafts of 10 terials pt1: sellac,
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics To varnishes and rust Self illustrations Self illustrations Self illustrations To varnishes Self illustrations Self ill	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials pt2: sub-surface scattering Mixing materials, shumination Alterations: anisotropy, bump, normal and displacement, A	8 d why to Shafts of 10 terials pt1: sellac,
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics To varnishes and rust Self illumap baking	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials pt2: sub-surface scattering Mixing materials, shumination Alterations: anisotropy, bump, normal and displacement, A	8 d why to Shafts of 10 terials pt1: sellac,
Unit IV Depth map, What, When an use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics Trought varnishes and rust Self illumap baking Text Books	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials pt2: sub-surface scattering Mixing materials, shumination Alterations: anisotropy, bump, normal and displacement, A	8 d why to Shafts of 10 terials pt1: nellac,
Unit IV Depth map, What, When as use Shadow Techniques (F Light – light fog, Trouble – Unit V Arnold for Maya material or refractions and caustics Trought – varnishes and rust Self illumap baking Text Books Reference Books	Shadows Ind Why to use, Reuse / Share depth maps, Ray traced, What, When and for realism and Optimization), Adding hard or soft shadows to a scene, shooting section for shadow problems, rendering layer Shading Overview Opaque materials: diffuse and reflections Transmissive materials pt2: sub-surface scattering Mixing materials, shumination Alterations: anisotropy, bump, normal and displacement, A Autodesk Maya A Comprehensive Guide Maya at glance	8 d why to Shafts of 10 terials pt1: nellac,



Date of approval by the	13/07/2019
Academic Council	

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand Maya interface and create 3d objects.	2	Emp
CO2	Understand the texture and render 3d objects.	2	S
CO3	Apply lights in 3d scene and create photo realistic graphics for national and international cinema.	2	S
CO4	Understand shadows type and apply in 3d scenes.	3	Ent
CO5	Create objects like glass, metal, etc.	5	None

Course	P	rograr	n Out	come	s (Co	Prog	gram	F	rogran	n					
Outco		(High	ly Ma	pped-	- 3, M	Spec	cific	Ed	lucation	nal					
mes					relate	ed-0)					Outc	omes	О	utcom	es
	P	PO	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3	1	3	3	2	3	1	3	0	0	1	0	2	2	3	3
CO 4	2	1	1	3	2	3	1	3	2	3	3	1	3	3	3
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	1	2
Avg	2.2	2	2.4	1.8	2	2.2	2.2	1.8	1.6	2.2	1.8	1.8	2	1.8	2



AN3440	L T P C 0-0-4-2						
Version No.	1.0						
Course Prerequisites	Nil						
Objectives	Study of this subject will familiarize the students with the Camera Tracking And Match Moving						
Expected Outcome	On completion of the course student should be able to: Track any Object From live footage and add 3d object in the scene						
Unit No.	Unit No. Unit Title						
Unit I	Tracking overview	6					
	And Match Moving and industry uses, Explains 2d and 3d tracking, explur, Camera Rig, Tracker Point	plains					
Unit II	2D Tracking	10					
	cking Process, Track Placement: Making Every Track Count, Exploring Automatic Tracking, camera handling and adding track points	g the					
Unit III	Using Mocha/After effect	10					
Mocha Basics, Work stabilizing footage, Wo	space, tracking in Mocha, Applying Tracking Data, Fine-Tune the track	k,					
staomizing lootage, wo	TKING WITH SCAN GATA						
	The Basics of Match moving	8					
Unit IV Understanding the Basic T							
Unit IV Understanding the Basic T Typical Match move, Impo	The Basics of Match moving Sechnique, Analyzing the Movement, Creating the Proxy Object Explore						
Unit IV Understanding the Basic T Typical Match move, Impo Unit V PFTrack Basics, Wordistorted plate	The Basics of Match moving Sechnique, Analyzing the Movement, Creating the Proxy Object Explorortance of Match move / Motion Tracking, Tracking in nuke	ing a					
Unit IV Understanding the Basic T Typical Match move, Impo Unit V PFTrack Basics, Woo	The Basics of Match moving Technique, Analyzing the Movement, Creating the Proxy Object Explorortance of Match move / Motion Tracking, Tracking in nuke Using PFTrack	ing a 10					



Mode of Evaluation	Internal and External Assessment
Recommendation by Board of Studies on	11-06-2019
Date of approval by the Academic Council	13/07/2019

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the fundamentals of tracking and match moving.	2	Emp
CO2	Understand the Track 2d objects and replace objects form live action footage	2	S
CO3	Understand the Mocha tools and apply tracking data in after effect.	2	S
CO4	Understand the match moving and learn how to do it.	3	Ent
CO5	Understand the PFTrack, track camera movements and place 3d object in live action footage	5	None

Course	Pro	gram (Outco	mes (C	ourse	e Articulation Matrix (Highly Program					gram	Program			
Outcom		Mapp	ed-3,	Mode	rate- 2	Spe	cific	Educational							
es											Outc	omes	(Outcom	es
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO3
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	3
CO 2	2	2	2	3	0	2	3	2	2	3	3	0	0	0	0
CO 3	1	2	3	0	3	1	3	0	0	1	0	2	2	3	3
CO 4	2	3	1	3	2	3	1	3	2	3	3	1	3	3	3
CO 5	3	0	3	1	2	0	3	2	2	1	3	3	2	1	2



Avg | 2.2 | 2 | 2.4 | 1.4 | 2 | 1.6 | 2.2 | 1.8 | 1.6 | 2.2 | 2.4 | 1.8 | 1.8 | 1.8 | 2.2

JM3403	Title: Cinematography	L T P C 3-0-0-3
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	The course will help the student to understand the concept of Cinematography	
Expected Outcome	On completion of the course student will understand the cinematography techniques and will be able to create their own short film and cinematic videos	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Language of cinema	9
	a, Deep focus, Continuity Editing, Montage, Focus on Sound and und; Sync Sound; the use of Color as a stylistic Element	Color correction
Unit II	Types of Cinema	9
Fiction Cinema, Non-fiction Cinema.	ction cinema, Early cinema, development of classical Hollywood c	einema, Rise of
Unit III	Indian Cinema	9
	tudio Era, 1950s - Cinema and the Nation (Guru Dutt, Raj Kapoor Angry Man, Globalization and Indian Cinema	, Mehboob),
Unit IV	Production techniques-I	8
	anding Concept, Character description and designing, Storyboarding, Types of shots and camera angles.	ng techniques,
Unit V	Production techniques-II	9
Responsibility of the cir	nematographer, Refining the story, Cinematography tools and tech	niques.
Text Books	1. Keval J. Kumar, Mass communication in India, Jaic house.	o Publishing



Reference Books	 Renu Saran, History of Indian cinema, Kindle edition Five C's of cinematography by Joseph Rogers, MM Mukhi& sons
Mode of Evaluation	Internal and External Assessment
Recommendation by Board of Studies on	11-06-2019
Date of approval by the Academic Council	13/07/2019

Course Outcome ForJM3403

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the language of cinema and the primary knowledge of making	2	Emp
CO2	Understand the sequence for a film	2	S
CO3	Understand the history of early stage cinema in India and the most important changes in Indian cinema and its culture.	2	S
CO4	Write script and screenplay for the film and documentaries.	3	Ent
CO5	Understand the roles and responsibilities of the cinematographer and its tool and techniques.	5	None

CO-PO Mapping for JM3403

Course	P	rograi	n Out	come	Prog	gram	F	rogran	n						
Outco		(High	ly Ma	pped-	- 3, M	Spec	cific	Ed	lucation	nal					
mes					relate	ed-0)					Outc	omes	O	utcom	es
	P	PO	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	2	O3	O4	O5	O6	Ο7	O8	O9	10	01	O2	01	O2	О3
CO 1	2	3	3	0	3	2	1	2	2	1	3	3	2	2	2
CO 2	2	2	2	3	0	2	3	1	2	3	2	0	1	0	0
CO 3	3	1	3	2	3	2	3	0	2	1	0	1	3	2	3



CO 4	2	1	1	3	2	3	1	3	2	3	3	2	3	3	3
CO 5	3	1	3	3	1	0	3	2	2	1	1	3	2	2	1
Avg	2.4	1.6	2.4	2.2	1.8	1.8	2.2	1.6	2	1.8	1.8	1.8	2.2	1.8	1.8

AN3404	Title:FX & Simulation	L T P C 1-0-4-3
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	Study of this subject will familiarize the students with the FX & Simulation	
Expected Outcome	On completion of the course student should be able to: create Fluids, Particles,hair,fur	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Understanding FX & Simulation/ Particle System	6
	llation, INTRODUCTION, create particles, create emitters, Modify the de particles, Use the Hardware Renderer, Apply different types of fields roperties	
Unit II	Introduction to nParticles	10
	e nParticles with geometry • Simulate liquids • Work with the Maya Nuduction to soft bodies simulation	cleus solver



• Learn about various types of fluids in Maya • Apply the dynamic and non-dynamic fluid effects • Modify the fluid components • Paint in the fluid containers • Add ocean and pond effects to your scene • Connect Maya fields to a container, Maya mesh

Unit IV	Introduction to nHair	8
Clift I V	introduction to infan	G

• Apply nHair to objects • Simulate nHair • Paint textures on nHair, Ai Shading network for hairs

Unit V Introduction to Bifrost/Bullet Physics	10
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• Understand the fundamental concept of Bifrost • Create and optimize Bifrost fluids • Add collider to Bifrost fluids • Add mesh to Bifrost particles• Work with rigid and soft bodies • Create a soft body • Create constraints, Rendering attributes of particles

Text Books	Matchmoving_The_Invisible_Art_of_Camera_Tracking_2005_Sybex
Reference Books	Matchmoving_The_Invisible_Art_of_Camera_Tracking_2005_Sybex
Mode of Evaluation	Internal and External Assessment
Recommendation by Board of Studies on	11-06-2019
Date of approval by the Academic Council	13/07/2019

Course Outcome For AN 3404

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand fx and simulation principle and use particle system to create simulation.	2	Emp
CO2	Understand nParticles and create fluid	2	S
CO3	Create ocean, pond etc.	2	S
CO4	Apply nHair to objects and simulate nhair.	3	Ent
CO5	Understand rigid body, soft body and create realistic simulation, which allow him to work for animation and visual effects studios, film companies, game design companies globally.	5	None



Course	P	rograr	n Out	come	s (Co	ix	Prog	gram	P	rogran	n				
Outco		(High	ly Ma	pped-	· 3, M	Spe	cific	Ed	ucation	nal					
mes					relate	ed-0)					Outc	omes	O	utcome	es
	P	PO	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	1	1	0	2	2	2	2	2	3	3	2	2	2	2
CO 2	2	2	2	3	0	2	3	2	2	3	3	0	1	0	0
CO 3	1	3	3	2	2	0	1	0	0	1	0	2	2	3	3
CO 4	1	1	1	3	3	3	1	2	2	3	1	2	3	2	3
CO 5	3	1	3	3	2	3	3	2	3	0	3	2	2	1	2
Avg	2	1.6	2	2.2	1.8	2	2	1.6	1.8	2	2	1.6	2	1.6	2



THIRD YEAR

SEMESTER 5

AN3502	Title:3D Animation	L T P C 2-0-4-4						
Version No.	1.0							
Course Prerequisites								
Objectives	Study of this subject will familiarize the students with 3D animation.							
Expected Outcome	On completion of the course students should be able to: Add animation to 3d objects.							
Unit No.	Unit Title	No. of hours (per Unit)						
Unit I	Basic Of 3d Animation							
	rinciples, Animation tools in 3D, "Applying classical 2D animal aracter". Bridging the gap between 2d and 3d Animation Playback Controls	tion techniques i.e;						
Exploring Maya's anima language., Acting for An	veight, Overview of Maya's playback controls, ution preferences. Details about graph editor, Bouncing Ball Ex- nimation to understood weight	ercise, Body						
Unit III	Graph Editor							
attributes	a motion path, Utilizing the trax-editor to blend animation clips up animation clip for game animation	. Controlling						
Unit IV	Constrains							
Animating with constrain	nts, Previewing animations in real-time with play blasts,							
Introduction to scene ani	imation and key framing, dope sheet. Camera Animation							
Unit V	Animation							
pushing and pulling objects. Faci	ss, snakes and birds. Biped Character walk cycles, Biped Character al animation and lip-sync. Nonlinear Animation with trax edito character interactions. Loop animation Clip for game	•						
Text Books	Mastering Autodesk Maya 2017 by Eric Keller	•						
Reference Books	2. Introducing Maya 2017 by DariushDerakhshani.							
Mode of Evaluation	Internal and External Assessment							



Recommendation by Board of Studies on	11-06-2019
Date of approval by the Academic Council	13/07/2019

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand basic of 3d animaiton.	2	Emp
CO2	Understand playback controls in maya.	2	S
CO3	Understand and create graph editor.	2	S
CO4	Create animation Constrains in maya.	3	Ent
CO5	Understand and create animation tools.	5	None

Course	P	rogra	m Ou	tcome	es (Co	rix	Prog	gram	P	rogran	n				
Outco		(High	ly Ma	ipped	- 3, M	Spe	cific	Ed	ucation	nal					
mes					relat	ed-0))				Outc	omes	O	utcome	es
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	O7	O8	O9	10	O1	O2	O1	O2	O3
CO 1															
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3	1	3	3	2	3	1	3	0	0	1	0	2	2	3	3
CO 4	2	1	1	3	2	3	1	3	2	3	3	2	3	3	3
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	1	2
Avg	2.2	2	2.4	1.8	2	2.2	2.2	1.8	1.6	2.2	1.8	2	2	1.8	2



AN3503	Title: Computer Aided 3D Dynamics	L T P C 1-0-4-3					
Version No.	1.0						
Course Prerequisites	Nil						
Objectives	Study of this subject will familiarize the students with the FX & Simulation						
Expected Outcome	On completion of the course student should be able to: Create Fluids, Particles.						
Unit No.	Unit Title	No. of hours (per Unit)					
Unit I	Understanding FX & Simulation/ Particle System	9					
	CTION, create particles, create emitters, Modify the render attribute, Apply different types of fields and pre-defined effects	s of particles,					
Unit II	Introduction to nParticles	10					
• Create nParticles • Collide nParticles with g fields	geometry • Simulate liquids • Work with the Maya Nucleus solver • U	Jse the force					
Unit III	Introduction to Fluids	10					
	• Apply the dynamic and non-dynamic fluid effects • Modify the fluid pond effects to your scene • Connect Maya fields to a container	id components					
Unit IV	Introduction to nHair	7					
• Apply nHair to objects • Simulate nHair • P	aint textures on nHair						
Unit V	Introduction to Bifrost/ Bullet Physics	10					
	rost • Create and optimize Bifrost fluids • Add collider to Bifrost flui bodies • Create a soft body • Create constraints	ds • Add mesh					
Text Books	Autodesk Maya A Comprehensive Guide by Sham Tickoo						
Reference Books	Advanced Maya Texturing and Lighting by John Wiley						
Mode of Evaluation	Internal and External Assessment						
Recommendation by Board of Studies on	11-06-2019						
Date of approval by the Academic Council	13/07/2019						



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand fx and simulation principle and use particle system to create simulation.	2	Emp
CO2	Understand nParticles and create fluid	2	S
CO3	Create ocean, pond etc.	2	S
CO4	Apply nHair to objects and simulate nhair.	3	Ent
CO5	Understand rigid body, soft body and create realistic simulation, which allow him to work for animation and visual effects studios, film companies, game design companies globally.	5	None

Course	P	rogra	m Ou	tcome	es (Co	Prog	gram	Program							
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not											cific	Educational		
mes	related-0)											omes	Outcomes		
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	2	3	3	0	3	2	3	2	2	1	3	1	0	2	2
CO 2	2	2	2	1	0	3	3	3	1	3	0	3	1	0	0
CO 3	1	0	3	2	3	1	1	0	0	1	3	2	2	3	3
CO 4	2	1	1	3	2	3	1	3	2	3	3	1	3	3	0
CO 5	3	3	3	2	2	0	3	2	2	1	3	3	2	1	2
Avg	2	1.8	2.4	1.6	2	1.8	2.2	2	1.4	1.8	2.4	2	1.6	1.8	1.4



AN3504	Title: Computer Aided 3D Rigging	L T P C 2-0-2-3
Version No.	1.0	
Course Prerequisites		
Objectives	Study of this subject will familiarize the students with Rigging techniques	
Expected Outcome	On completion of the course students should be able to: Rig any object.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Joints, IK/FK, handles/controls, constraints	
Introduction to bone syste	m/Joints and IK handles, creating bone system and maintaining nar	ming conventions,
Unit II	Skinning	
Skinning types, import and	d export of skin weights, IK and FK basics, IK and FK switch	
Unit III	Blend shapes	
Blend Shape, Blend Shape	e Attributes,	
Unit IV	Deformers	
Introduction to Deformers	, Introduction to constrains and implementation to rig. Maintaining	proper hierarchy,
grouping and creating con	trols, rigging the characters, Use of deformers in rigging process	
Unit V	Rigging a Character	
create a bone structure, Th	ne parent-child relationship, KINEMATICS, Rig Character.	
Text Books	Mastering Autodesk Maya 2017 by Eric Keller.	
	*Latest editions of all the suggested books are recor	mmended.
Reference Books	2. Introducing Maya 2017 by DariushDerakhshani.	
	*Latest editions of all the suggested books are recommende	d.
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand Joints, IK/FK, handles/controls, constraints in maya.	2	Emp
CO2	Understand and create Skinning in maya.	2	S
CO3	Create Blend shapes in maya.	2	S
CO4	Undrstand and create Deformers in maya.	3	Ent
CO5	Create a rigging charater in maya.	5	None

Course	P	Program Outcomes (Course Articulation Matrix											Program Pro		
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not											cific	Educational		
mes	related-0)											omes	Outcomes		
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	О3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	0	2	1	3	1	0	1	2	0
CO 3	0	3	0	2	3	1	3	1	0	1	2	2	2	3	3
CO 4	2	1	1	3	2	3	1	3	2	3	3	1	3	0	3
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	1	2
Avg	2	2	1.8	1.8	2	2.2	1.6	2	1.4	2.2	2.4	1.8	2	1.6	2



VP3414	Title:Clay Modelling and Sculptures	LTPC									
		0 0 4 2									
Version No.	1.0										
Course Prerequisites	Nil										
	Study of this subject will familiarize the students with the rule of clay modeling.										
Objectives											
	etay modernig.										
Expected Outcome	On complition of course the student should be able to create clay										
	models using diffferent sculpting techniques.										
Unit No.	Unit Title	No. of									
		hours (per Unit)									
Unit I	Basics of Drawing and Sketching	6									
Understanding poses through	th sketches, human muscle study 3D objects, Lighting and Shading.										
Unit II	Types of Modelling	4									
Different types of sculpting	techniques, usage of different types of clay.										
Unit III	Understanding tools and Techniques	4									
Tools required, wire framin	g, armature clay modeling, converting character sketch into wireframe										
Unit IV	Assignment- I	4									
Create a human hand using	clay techniques(first draw the sketch).										
Unit V	Assignment- II	6									
Create character design with	n the help of clay.										
Text Books	Beginner guide to sculpting character in clay— 3D total publish	ing									
Reference Books	2. Beginner guide to sculpting character in clay- 3D total publishing	ng									
Mode of Evaluation	Internal and External Assessment										
Recommendation by Board of Studies on	11-06-2019										
Date of approval by the	13/07/2019										
Academic Council	13/0/12017										



Course Outcome ForVP3414

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the planning and drawing concept for clay	2	Emp
CO2	Understand the types of clay and sculpture	2	S
CO3	Understand the sculpturing tools and techniques	2	S
CO4	Create human hand using clay techniques	3	Ent
CO5	Create character design with the help of clay	5	None

CO-PO Mapping for VP3414

Course	P	rogra	m Ou	tcome	es (Co	urse 1	Articu	llatior	n Matı	rix	Prog	gram	F	rogran	n	
Outco		(High	ly Ma	ipped-	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Educational			
mes					relate	ed-0)					Outc	omes	Outcomes			
	P									PO	PS	PS	PE	PE	PE	
	O1	O2	O3	O4	O5	O6	O7	O8	O9	10	O1	O2	O1	O2	О3	
00.4																
CO 1	3	3	3	3	3	2	1	1	2	1	3	1	3	2	3	
CO 2	2	2	2	3	2	2	3	2	2	3	3	0	1	1	0	
CO 3	1	3	3	2	3	2	0	3	0	1	0	2	2	3	3	
CO 4	1	1	3	0	2	3	1	3	2	3	3	3	3	3	0	
CO 5	3	1	3	1	1	1	3	2	1	2	3	3	2	1	3	
Avg	2	2	2.8	1.8	2.2	2	1.6	2.2	1.4	2	2.4	1.8	2.2	2	1.8	



AN3505	Title: Voice Over and Sound Design	L T P C 1-0-4-3								
Version No.	1.0									
Course Prerequisites										
Objectives	Study of this subject will unable the student to record and design the voice over and sounds.									
Expected Outcome										
Unit No.	Unit Title									
Unit I	Introduction to audition	6								
Clip, Manipulating audio, Au	ware, workflow, frame rates, aspect ratio, all types of panels, compression ato trim/crop, mute, DC offset, resample, reverse, smooth/enhance, Fade erter etc. understanding vocal system, vocal process.									
Unit II	Audio format	10								
Understanding audio formats formats like .WAV, .AIFF, .I	s, audio output, progressive Vs interlaced, Understanding various digital MP3, .swf, .WMA etc.	audio								
Unit III	Understanding tools	6								
Moving edited clip. Event to (attack/sustain/release), etc. statistics tool (Max, RMS, D	Layers, Ripple edit, Razor tool, understanding all tools on toolbox for edol: move, split, slip and trim multiple events, create fades, apply ASR Understanding script editor window. Spectrum analysis tools, scrub tool C offset, zero crossings), sampler tool etc.	etc.,								
Unit IV	Waveform and multitrack	10								
narration content. Audio edit envelopes. Edit, record, enco	b availability, pacing, When and how to apply, establishing the portfolioring: workflow, real time editing, event based editing, waveform volume and master digital audio, editing audio by drag and drop options, cross d levels, creating smooth fades etc. Understanding Multichannel audio respectively.	and pan ss fading								
Unit V Sound design										
multiple tracks, adjusting tra-	dio transitions, blur, noise, speeding the audio, various audio effects. adeck time, musical instrument file processing	ding								
Text Books	Adobe Soundbooth CS5									
Reference Books	 Electronic Music and Sound Design – by Alessandro Cip Maurizio Giri. 	riani&								



Mode of Evaluation	Internal and External Assessment
Recommendation by Board of Studies on	07-06-2022
Date of approval by the Academic Council	20- 10 - 2022

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the human vocal system, its components, and the vocal process	2	Emp
CO2	Understand the practical regimen of vocal warm-ups and maintenance.	2	S
CO3	Create a simple vocal warm up routine.	2	S
CO4	Analyze the texts for vocal performance.	3	Ent
CO5	Understand the Interpret & record vocal performances demonstrating variations in pitch, volume, rate, and vocal quality.	5	None

Course		rogra									_	gram	Program			
Outco	((High	ly Ma	ipped-	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Educational			
mes					relat	ed-0))				Outc	omes	Outcomes			
	P P P P P P P PO										PS	PS	PE	PE	PE	
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3	
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2	
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0	
CO 3	1	3	3	2	3	1	3	0	0	1	0	2	2	3	3	
CO 4	2	1	1	3	2	3	1	3	2	3	3	1	3	3	3	
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	1	2	



Avg	2 2	2	24	1 8	2	22	22	1 8	1.6	2.2	1 2	1 0	2	1 2	2
	2.2	2	2.4	1.8	2	2.2	2.2	1.8	1.6	2.2	1.8	1.8	2	1.8	2



AN3506	Title:Lighting & Rendering for VFX	L T P C 1-0-4-3							
Version No.	1.0								
Course Prerequisites									
Objectives	Study of this subject will familiarize the students with Lighting & Rendering for VFX techniques.								
Expected Outcome	On completion of the course students should be able to create realistic 3d scenes for vfx movies.								
Unit No.	No. of hours (per Unit)								
Unit I	Introduction to lighting	6							
Lighting basic, Type of	f light, three-point lighting, Explain Lighting Techniques Lighting Attrib	oute							
Unit II	Maya Light / Arnold Light	10							
Introduction to Maya light, l	ight type, rendering options, render Setting	•							
Unit III	Shadow casting	6							
Shadow Preview, Depth Ma	p Shadows, Ray Trace shadows. Shadow pass								
Unit IV	Image Based Lighting	10							
Image Based Lighting HDRI image.	with HDRI, three-point lighting setup, creating realistic glass objects, Cr	reating							
Unit V	Lighting a scene for VFX	10							
Render Layers and Render P	Passes, Arnold materials, Advance lighting techniques, Arnold rendering								
Text Books	Advanced Maya Texturing and Lighting								
Reference Books	Lighting for Product Photography The Digital Photographer's Ste Guide to Sculpting with Light	p-By-Step							
Mode of Evaluation	Internal and External Assessment								
Recommendation by Board of Studies on	11-06-2019								



Date of approval by the	13/07/2019
Academic Council	

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the lighting basic and lighting techniques.	2	Emp
CO2	Understand the Maya light and Arnold lights.	2	S
CO3	Create shadow and apply to 3d scenes.	2	S
CO4	Create image-based lighting.	3	Ent
CO5	Create the realistic 3d scene for live action movies.	5	None

Course	P	rogra	m Ou	tcome	es (Co	urse A	Articu	llatior	n Matı	rix	Prog	gram	Program			
Outco		(High	ly Ma	ipped	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Educational			
mes					relat	ed-0))				Outc	omes	Outcomes			
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE	
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3	
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2	
CO 2	2	2	2	3	3	0	3	2	2	3	0	0	1	0	0	
CO 3	1	0	0	2	3	3	3	3	1	0	1	2	2	2	3	
CO 4	2	2	2	0	0	3	1	3	2	3	2	1	1	3	2	
CO 5	3	2	3	3	2	3	3	2	2	1	3	3	3	3	2	
Avg	2.2	1.8	2	2	2.2	2.2	2.2	2.4	1.8	2	1.8	1.8	1.8	2	1.8	



AN3507	Title: 2D Game Art	L T P C								
Version No.	1.1									
Course Prerequisites	Nil									
Objectives	Study of this subject will familiarize the students with the Role of Game art and design.									
Expected Outcome	On completion of the course students should he able to: Develop understanding of Game design and art involved in creating a game.									
Unit No.	Unit Title	No. of hours (per Unit)								
Unit I	Basics of game art	5								
Definition & Meaning of g for game environment	ame art, Importance of concept art, figure drawing and creature anaton	my. Color concept								
Unit II	Digital Art	8								
Understanding of Photosh modes. Color theory	op, Understanding of vector and raster art, character design variation	on, different color								
Unit III	Preproduction process	9								
 Script writing Storyboarding for ga Character design dev Game play 										
Unit IV	Post production process	7								
a. Audio recordingFX S b. Animatic recording c. Final voice over recording										
Unit V	Project Assignment	6								
Creating the entire prepro	duction including script, storyboard variation, character design variation	on.								
Text Books	Andrew Loomis: Figure Drawing for all its worth.									
Reference Books	Figure Drawing: Design and invention.									
Mode of Evaluation	Internal and External Assessment									
Recommendation by Board of Studies on	11-06-2019									
Date of approval by the Academic Council	13/07/2019									



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the workspace of Photoshop software with proficiency and work on any version of the software if needed.	2	Emp
CO2	Understand the use of Concept art and digital painting.	2	S
CO3	Understand the importance of figure drawing in the 2d design software.	2	S
CO4	Understand the basics of vector and raster graphics, different formats of Photoshop files.	3	Ent
CO5	Understand, Implement and apply the artistic skills in a way that contributes to the global development of the animation industry.	5	None

Course	P	rogra	m Ou	tcome	es (Co	urse 1	Articu	latior	n Mati	rix	Prog	gram	P	rogran	n
Outco	((High	ly Ma	ipped-	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Educational		
mes					relat	ed-0))				Outcomes Outco			utcome	es
	P	P P P P P P P P PO							PS	PS	PE	PE	PE		
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1															
COT	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	0	2	1	3	1	3	3	2	3	3	2	3
CO 3	0	2	2	0	2	1	2	1		2	0	0	2	3	1
CO 4	1	1	3	2	2	3	2	2	2	1	2	2	3	1	0
CO 5	3	1	1	3	1	3	2	3	1	1	3	2	0	2	2
Avg	1.8	1.8	2.2	1.4	2	2	2	1.8	2	2	2	2	2	2	1.6



VP3514	Title: Aesthetics in Design	L T P C 1 0 22
		1 0 12
Version No.	1.1	
Course Prerequisites	Nil	
Objectives	Study of this subject will familiarize the students with the Role of design Aesthetics.	
Expected Outcome	On completion of the course students should he able to: implement the core principles of design into any products.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Defining Aesthetics	5
Definition & Meaning of A	Aesthetics, Role of balance, color, movement, pattern, scale, shape an	d visual weight.
Unit II	Implementing the Design	8
Understanding and implem	nenting lines, colors, spacing on websites and apps, adding context.	
Unit III	Principles of Design	9
Contrast, balance, empha	asis, proportion, hierarchy, repetition, rhythm, pattern, white space, m	ovement, variety,
Unit IV	Typography	7
Using different types of tusing as print media, elec	fonts and understanding its implementation, Using typography in difference media.	ferent mediums
Unit V	Project Assignment	6
Creating the entire produ	ct design for print media and electronic media.	1
Text Books	Andrew Loomis: Figure Drawing for all its worth.	
Reference Books	Figure Drawing: Design and invention.	
Mode of Evaluation	Internal and External Assessment	



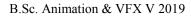
Recommendation by Board of Studies on	11-06-2019
Date of approval by the Academic Council	13/07/2019

Course Outcome ForVP3514

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand & design the graphics in vector graphics for different mediums of designing.	2	Emp
CO2	Create the vector art forms, Create different art works in Photoshop. The student will also be able to make a newcomer understand the basics much proficiently.	2	S
CO3	Understand relate with proportion, movement and balance.	2	S
CO4	Understand the qualities of any product design along with visual elements.	3	Ent
CO5	Understand & implement the graphic designing skills using various software skills on a national and international level in the graphic design industry.	5	None

CO-PO Mapping for VP3514

Course	P	rogra	m Ou	tcome	es (Co	urse 1	Articu	llatior	n Mat	rix	Prog	gram	Program		
Outco		(High	ly Ma	apped	- 3, M	lodera	ate- 2,	Low	-1, No	ot	Spe	cific	Educational		
mes		related-0)											Outcomes		
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	O7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	3
CO 2	2	2	2	3	0	2	3	2	2	3	3	0	0	0	0





CO 3	1	2	3	0	3	1	3	0	0	1	0	2	2	3	3
CO 4	2	3	1	3	2	3	1	3	2	3	3	1	3	3	3
CO 5	3	0	3	1	2	0	3	2	2	1	3	3	2	1	2
Avg	2.2	2	2.4	1.4	2	1.6	2.2	1.8	1.6	2.2	2.4	1.8	1.8	1.8	2.2

Semester-6

AN3601	Title: ADVANCE RIGGING	LTPC								
Version No.	1.1	2 0 2 3								
Course Prerequisites	Nil									
Objectives	Study of this subject will familiarize the students with the Role of design Aesthetics.									
Expected Outcome										
Unit No.	Unit No. Unit Title									
Unit I	Defining Rigging	5								
RP solvers, LRA- Local	ng, Grouping, Renaming, Rigging Tools, IK & FK, Animation Tools, rotation Axis, Constraints, Cluster Deformers, Ik Spline Solver, Befowith Geometry or any object, Implementing rigging									
Alignment of pivot poin	aming Conversion, Deformers - Uses of deformers, Lattice, wrap, clusts, Colorizing the Controls, Locking Extra Attributes, Parenting, Mararenting, Renaming, Constraints,									
Unit III	Features of rigging -1	9								
Parenting, Renaming, Co										
Unit IV	Features if rigging-2	7								
Joint Setup, mirrors setu IK setup for leg, Fk setu IK FK Blending, how to Spine setup, Hand contro Game Character Rig	p, Rotate Order p for leg, IK-FK with one setup, create Foot Control									



Unit V	Project Assignment	6
Low poly Character Skin	n , Mirror Skin	
Text Books	Andrew Loomis : Figure Drawing for all its worth.	
Reference Books	Figure Drawing: Design and invention.	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	11-06-2019	
Date of approval by the Academic Council	13/07/2019	

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)			
CO1	Understand the Introduction to Rigging Tool	2	Emp			
CO2	Apply Joint, Deformers and constrain	2	S			
CO3	Create the set Driven key for rigging process	2	S			
CO4	Create the Rig setup	3	Ent			
CO5	Understand & apply the Skinning for Rigging	5	None			

Course	P	rogra	m Ou	tcome	es (Co	urse 1	Articu	ılatior	Matı	rix	Prog	gram	Program		
Outco		(High	ly Ma	apped	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Educational		
mes					relat	Outc	omes	Outcomes							
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	O3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0



CO 3	1	3	3	2	3	1	3	0	0	1	0	2	2	3	3
CO 4	2	1	1	3	2	3	1	3	2	3	3	1	3	3	3
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	1	2
Avg	2.2	2	2.4	1.8	2	2.2	2.2	1.8	1.6	2.2	1.8	1.8	2	1.8	2

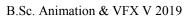
AN3603	Title: Character Animation	L T P C 2 0 4 3
Version No.	1.1	
Course Prerequisites	Nil	
Objectives	Study of this subject will familiarize the students with the Role of design Aesthetics.	
Expected Outcome	On completion of the course students should he able to: implement the core principles of design into any products.	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I		5
Introduction acting for an Students	imator, Body language, character attitude, character interaction, Live	Acting for
Unit II		8
Character Description, ba	ckground story Method Acting	
Unit III		9
Acting for weight pull and	d push, Acting for dialog animation, About Facial Expression.	
Unit IV		7
Stage acting, Storyboard	l and script, Screen Play.	



Animation principles brief, with examples, Students Act with Animation principle.									
Text Books	Andrew Loomis : Figure Drawing for all its worth.								
Reference Books	Figure Drawing: Design and invention.								
Mode of Evaluation	Internal and External Assessment								
Recommendation by Board of Studies on	11-06-2019								
Date of approval by the Academic Council	13/07/2019								

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand & apply the principles of Animation	2	Emp
CO2	Create About Character Description	2	S
CO3	Apply Acting for dialog animation	2	S
CO4	Understand the Screen play	3	Ent
CO5	Apply How to use Animation principle	5	None

Course	Program Outcomes (Course Articulation Matrix	Program	Program
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not	Specific	Educational
mes	related-0)	Outcomes	Outcomes





	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PS O1	PS O2	PE O1	PE O2	PE O3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3	1	3	3	2	3	1	3	0	0	1	0	2	2	3	3
CO 4	2	1	1	3	2	3	1	3	2	3	3	1	3	3	3
CO 5	3	1	3	1	2	3	3	2	2	1	3	3	2	1	2
Avg	2.2	2	2.4	1.8	2	2.2	2.2	1.8	1.6	2.2	1.8	1.8	2	1.8	2



AN3604	Title:Facial &Lips Synchronization	L T P C 1 0 4 3								
*** * **		1 0 4 3								
Version No.	1.0									
Course Prerequisites	Nil									
Objective	This subject aims to make student understand the 2d animation process.									
Expected Outcome	On completion of this course, the student should be able to create various anima	ations in 2d.								
Unit No.	Unit Title	No. of Hrs.								
Unit I	Facial animation	10								
Unit II	Blend shape, Facial Rig test, Key Frames, Extremes, Breakdowns, Sketch for Exp	10								
	Expressions									
What are the 21 facial exp	pressions? expression sheet, Different type of eye blink & eye movement, X-sheet	for Expression								
Unit I II	Character expressions	11								
Expression with dialog. E export/Import Expression	motion and expression, Biped character expression. Animation layer for expression,	on, How to								
Unit IV	Expression sheets	10								
TwelveRulesforExpression Character	n, Rhythm &Timing, Character animation with act and expression, make an expre	ession sheet for								
Unit V	Assignments	9								
Biped character Acting w Animation file for Game	ith expression.									
Text Books	Animation survival kit									
Reference Books	Adobe flash professional CS classroom in a book (by adobe creative team) Ado Adobe flash CS6 in simple steps (by Kogent learning solutions Incdream tech									
Mode of Evaluation	Internal and External Assessment									
Recommended by Board of Studied on	11-06-2019									
Date of Approval by the Academic Council on 13/07/2019										



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Students will able to Interpret the basic structure of TV script	2	Emp
CO2	Create Learn about Expression sheet	2	S
CO3	Create Expression with dialog animation	2	S
CO4	Understand Rhythm and timing for expression	3	Ent
CO5	understand Expression for Biped Character	5	None

Course	P	rogra	m Ou	tcome	es (Co	urse A	Articu	llatior	n Matı	rix	Prog	gram	P	rogran	n
Outco		(High	ly Ma	ipped-	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Educational		
mes					relat		Outc	omes	О	utcome	PE O3 3 2				
	P P P P P P P P P P								PS	PS	PE	PE	PE		
	O1	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3
CO 1	2	1	1	1	1	1	1	0	0	1	1	2	0	2	3
CO 2	2	0	2	0	2	2	3	3	1	3	2	3	3	2	2
CO 3	0	3	2	3	3	2	0	3	2	2	3	1	2	0	3
CO 4	2	3	3	3	3	3	2	2	3	2	1	2	3	3	2
CO 5	3	2	3	3	1	1	3	3	3	3	3	1	3	3	0
Avg	1.8	1.8	2.2	2	2	1.8	1.8	2.2	1.8	2.2	2	1.8	2.2	2	2

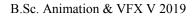


AN3605	Title:Game Design & Development	LTP C
A113003	The Game Design & Development	1-0-6-4
VersionNo.	1.0	
CoursePrerequisites		
Objectives	Study of this subject will familiar ize with Game design and development.	
ExpectedOutcome	On completion of the course students should be able to design basicgames.	
•		
UnitNo.	UnitTitle	No.
		ofhours(pe rUnit)
UnitI	GameEngines	8
EngineConcepts,Developme	entTools,IntroducingUnity,IDEBasics,UnityConcepts,Sprites	
UnitII	IntroductiontoScripting	10
C#LanguageConcepts,Creat	ingScripts,C#CodingFundamentals,GameLoopsandFunctions	
UnitIII	SimpleMovementandInput	8
SimpleMovement,SimpleRo	otationandScaling,EasyInputHandlinginUnity,	
UnitIV	PhysicsConcepts	10
RigidbodyComponents,Unit	yColliders,PhysicsMaterials,ScriptingCollisionEvents	
UnitV	Animation	10
SimpleUnityAnimation,Ani	matorStates,ScriptingAnimations,AnimationsandColliders	•
TextBooks	1.Beginning3DGameDevelopmentwithUnityAll-in-one,multi-platformgame	development
ReferenceBooks	2. C#GameProgrammingCookbookforUnity3D	
ReferenceDours	3. LearningC#byDevelopingGameswithUnity3DBeginner'sGuide.	
ModeofEvaluation	InternalandExternalAssessment	
Recommendation	07- 06- 2022	
byBoardofStudieson		
Date of approval by	13/07/2019	
theAcademicCouncil		



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)		
CO1	Understand game design &devlopment.	2	Emp		
CO2	Understand and learn coadding for unity 3D.	2	S		
CO3	Understand object movement and input	2	S		
CO4	Create Physics Concepts for games.	3	Ent		
CO5	Create animation in unity 3D	5	None		

Course		rogra									Prog	,	<u> </u>		
Outco		(High	ly Ma	ipped-	- 3, M	lodera	ite- 2,	Low	-1, No	ot	Spe	cific	Educational		
mes					relat		Outc	omes	O	utcome	es				
	P P P P P P P PO									PS	PS	PE	PE	PE	
	O1	O2	O3	O4	O5	06	O7	O8	09	10	O1	O2	O1	O2	О3
CO 1	2	1	1	2	2	0	1	0	2	3	3	2	2	2	3
CO 2	2	3	1	3	2	2	3	2	0	2	3	0	3	3	3
CO 3	1	0	2	0	3	3	3	3	2	2	2	3	2	0	2
CO 4	3	3	3	3	3	3	2	2	3	3	0	2	2	3	2
CO 5	3	3	3	3	0	3	2	3	3	3	3	3	3	1	2
Avg	2.2	2	2	2.2	2	2.2	2.2	2	2	2.6	2.2	2	2.4	1.8	2.4







VP3614	Title: Experimental Printing	L T P C 2-0-4-2								
Version No.	1.0	2042								
Course Prerequisites	Nil									
Objectives	To impart practical knowledge about Experimental Printing. This course is designed to introduce the basics Designs and Graphics for Print Mediatechniques to the students.									
	 To make the students aware about the basics designs and graphics for Print Media. To make the students understand the type composition and printing method. To provide hands on training on DTP software – Corel Draw and QuarkXpress. 									
Expected Outcome	On completion of the course students should be able to: understand and create phoediting and will understand the elements and designing of newspaper.									
Unit No.	Unit Title	No. of hours (per Unit)								
Unit I	Basics Designs for Print Media	4								
Aesthetics of design; Eleme	nts and Principles of design; Typeface families; Principles of good typography									
Unit II	Basics of Graphics for Print Media	5								
Meaning and Concept; Impo	ortance of Graphics; Recent Developments in the field of Graphics.									
Unit III	Type Composition and Printing Method	9								
Type composition; DTP and	use of computer software; Printing methods- letterpress, Cylinder, Rotary, Gravure	, Screen, Offset.								
Unit IV	DTP Software's	3								
	ow to work on work environment, color palette, how to import and export file), Qua	rk Express(tool								
palette, How to work on wo	ork environment, color palette, document layout palette, how to import and export fi	le).								
Unit V	Practice of Designing	5								
Designing a layout of leaflet Designing a front page of ne	t and letter head, Design a poster on current issue, Designing of cover page of a mag	azine,								
Text Books	wspaper. M V Kamath- Modern Journalism, Vikas Publishing House, NewDelhi. Publications M K Joseph- Basic Source Material for News Writing, Anmol Publications. Sarkar, N.N. Principles of Art and Production, Oxford University Press.									
Reference Books	<u> </u>									
Mode of Evaluation	Internal and External Assessment									
Recommendation by Board of Studies on	11-06-2019									
Date of Approval by the Academic Council on	13/07/2019									



Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the history of printing in India	2	Emp
CO2	Understand the elements and principles of design.	2	S
CO3	Understand & design the layout and composition for graphics	2	S
CO4	Analyze the Techniques of News Editing	3	Ent
CO5	Understand the basic of Photoshop	5	None

CO-PO Mapping for VP3614

Course	Program Outcomes (Course Articulation Matrix											Program Program			
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not											Specific Educational			nal
mes	related-0)										Outc	omes	O	utcome	es
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE
	01	O2	O3	O4	O5	O6	Ο7	O8	O9	10	O1	O2	O1	O2	О3
CO 1	2	1	1	2	2	0	1	0	2	1	1	2	2	2	3
CO 2	2	3	1	3	2	2	3	2	0	2	3	0	3	3	0
CO 3	1	0	2	0	3	2	3	3	2	2	2	3	0	0	3
CO 4	2	3	2	3	3	3	2	2	3	3	0	2	2	3	2
CO 5	3	3	3	3	0	3	2	3	3	3	3	3	3	1	2
Avg	2	2	1.8	2.2	2	2	2.2	2	2	2.2	1.8	2	2	1.8	2



AN3602	Title: ACTING FOR ANIMATION	L T P
		2 0 4 4
Version No.	1.0	<u>.</u>
Course Prerequisites	Nil	
Objective	This subject aims to make student understand the use of acti-	ng for animation
Expected Outcome	On completion of this course, the student should be able to of acting in animation	understand the importance
Unit No.	Unit Title	No. of Hrs
Unit I	Introduction	4
-	Body language, character attitude, character interaction	
Unit II	Understanding acting	4
Unit I II Acting for weight pull and push,	Weight through acting Acting for dialog animation	4
Unit IV	Stage acting	2
Stage acting, Storyboard and scri	pt	
Unit V	Principals of animation	2
Animation principles brief, with o	examples	·
Text Books	Acting for animator's	
Reference Books	Acting for animator's	



Mode of Evaluation	Internal and External Assessment
Recommended by Board of Studied on	05-04-2018
Date of Approval by the Academic Council on	11-06-2018

Unit-wise Course Outcome	Descriptions	BL Le vel	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand & apply the principles of Animation	2	Emp
CO2	Create the Animation Basic exercise	2	S
CO3	Understand Brief About 3dAnimation	2	S
CO4	Create the Biped Animation	3	Ent
CO5	Understand & analyze the Nonlinear Animation	5	None

Course	Program Outcomes (Course Articulation Matrix											Program			Program	
Outco	(Highly Mapped- 3, Moderate- 2, Low-1, Not											Specific Educational			nal	
mes	related-0)											omes	О	utcom	es	
	P	P	P	P	P	P	P	P	P	PO	PS	PS	PE	PE	PE	
	O1	O2	O3	O4	O5	O6	O7	O8	O9	10	O1	O2	O1	O2	O3	
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2	
CO 2	1	2	2	3	0	2	3	2	2	3	0	0	1	0	3	
CO 3	2	3	3	1	3	1	3	1	0	1	2	2	2	2	1	
CO 4	2	2	1	3	2	3	3	3	2	2	2	1	3	3	3	
CO 5	3	1	3	1	3	1	3	2	3	3	2	3	2	3	2	
Avg	2.2	2.2	2.4	1.6	2.2	1.8	2.6	2	1.8	2.4	1.8	1.8	2	2	2.2	

