Study & Evaluation Scheme

of

Bachelor of Science in Animation & Vfx

[Applicable for Batch 2021-24]

[As per CBCS guidelines given by UGC]



Approved in BOS	Approved in BOF	Approved in Academic Council
08/16/2021	08/20/2021	11/14/2021 Vide Agenda No. 6.5.3

Quantum University, Roorkee

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Study & Evaluation Scheme Study Summary

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			

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.

Evaluation Scheme

Type of Papers	Internal Evaluation	End Semester Evaluation(%	Total(%)						
	(%))							
Theory	40	60	100						
Practical/ Dissertations/Project	40	60	100						
Report/ Viva-Voce									
Internal Evaluatio	n Components(T	Theory Papers)							
MidSemester Examination		60Marks							
Assignment–I		30Marks							
Assignment-II	30Marks								
Attendance	Attendance 30Marks								
Internal Evaluation	on Components(I	Practical Papers)							



BSc. ANIMATION AND VFX 2021

Quiz One	30Marks
Quiz Two	30Marks
Quiz Three	30Marks
Lab Records/Mini Project	30Marks
Attendance	30Marks
End Semester Eva	luation (Practical Papers)
ESE Quiz	40Marks
ESE Practical Examination(write- up)	20Marks
Viva-Voce	20Marks
Practical performance	20Marks

Structure of Question Paper (Theory Paper)

The question paper will consist of 5 questions, one from each unit. Student has to Attempt all questions. All questions carry 10 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.
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- 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.



BSc. ANIMATION AND VFX 2021

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 (21-24) Version 2021.01

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

BREAKUP OF COURSE

Sr. No	CATEGORY	CREDITS
1	Foundation Core (FC)	4
2	Program Core (PC)	94
3	Program Electives (PE)	-
4	Open Electives (OE)	9
5	Project	12
6	Internship	-
7	Value Added Programs (VP)	12
8	General Proficiency (GP)	5
9	Passion Programs (PROPs)*	-
10	Disaster Management*	2*
	TOTAL NO. OF CREDITS (Without Minor)	136
	TOTAL NO. OF CREDITS (With Minor)	145

^{*}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	2	2	-	-	-	-	4
2	Program Core	17	15	14	15	19	14	94
3	Program Electives							
4	Open Electives		3	3	3			9
5	Projects	-	-	-	-	4	8	12
6	Internships	-	-	-	-	-		
5	VPs	2	2	2	2	2	2	12
6	GP	1	1	1	1	1	-	5
7	PROPs*							
10	Disaster		2*					2*
	Management*							
	TOTAL CREDITS	22	23	20	21	26	24	136

^{*} Non-CGP Audit Course Minimum Credit Requirements: **B.Sc. Animation &VFX: 143 credits**



Course Code	Category	Course Title	L	Т	P	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
GD3101	PC	Introduction to Graphic designing	4	0	0	4	1.0	Nil
AN3102	PC	Preproduction elements	4	0	0	4	1.0	Nil
AN3103	PC	Introduction of Digital Effects	3	0	0	3	1.0	Nil
JM3106	PC	Fundamental of Photography	0	0	4	2	1.0	Nil
VP3101	VP	Personality development program	0	0	4	2	1.0	Nil
GP3101	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	15	0	12	22		

Contact hrs.: 27hrs.



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	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	3	1.0	Nil
	OE	Open Elective I	3	0	0	3		
VP3215	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	23		

Contact hrs.: 29hrs.



Course Code	Category	Course Title	L	Т	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.



Course Code	Category	COURSE TITLE	L	Т	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
AN3403	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
VP3414	VP	Clay Modeling and Sculptures	0	0	4	2	1.0	Nil
GP3401	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	10	0	20	21		

Contact hrs.: 30hrs.

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



Course Code	Category	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
VP3514	VP	Aesthetics in Design	1	0	2	2	1.0	Nil
AN3570	PT	Film Pre-Production (Summer project)	0	0	8	4	1.0	Nil
GP3501	GP	General Proficiency	0	0	0	1	1.0	Nil
		TOTAL	9	0	32	26		

Contact hrs.: 41hrs.



Course Code	Category	COURSE TITLE	L	T	P	С	Version	Course Prerequisite
AN3601	PC	Advance Rigging	2	0	2	3	1.0	Nil
AN3602	PC	Character Animation	2	0	4	4	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	6	0	36	24		

Contact hrs.: 42hrs.



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	re multiple skills that will enhance their employability in different nimation, 3D and Entertainment industry
PSO-3	e 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-	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-	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-	Graphic Design : This specialization offered to the students will enhance their knowledge in the field of
3	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. 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, Addon 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 credits defined 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	L T P C 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	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					
Prime Minister, Election (economic and Political scen							
Unit II	Indian Economy	8					
National Income, GDP & G COVID 19, World Bank	GNP, 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	Daily News Paper. Competition Success Review (Monthly)						
Reference Books 1.Pratiyogita Darpan (Monthly) 2.Competition Wizard (Monthly) 3. National and Regional Newspaper, (Times of India, Hindustan Times, The Hindu, Indian 4. Express, Garhwal Post, The Economic Times) 5.Magazines (India Today, Frontline, Outlook, and Yojana) Manorama Year Book; MalayaliManorama							
Mode of Evaluation	Internal and External Assessment						
Recommendation by Board of Studies on	07-06-2021						
Date of approval by the Academic Council	14/11/2021						



Course Outcome ForJM3102

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
	Students will be able to aware with current scenario of society.	2	Emp
	Students will be understand the contemporary issue and able to related the things	2	S
	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
	Students will be able to inculcate the new perception about current scenario.	5	None

CO-PO Mapping for JM3102

Course Outcomes	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)										Prograi Specifi		Progr Educat	
												Outcom	es	Outco	mes
	PO	PO	PO	PO4	PO	PO	PO7	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3		5	6		8	9	0	1	2	1	2	3
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				0.2			1.2								
	1.4	0.6	1.4	5	1	1	5	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				
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 to understanding different to	extures in pencil, Simple objects in drawing, Simple shapes of geometre exture pencil shades.	ical shapes,				
Unit III	About Landscape	9				
	g of sky land, stones ,deserts, Trees & plants, roadsides, rivers Perspectiniques for outdoor lighting.	tive in lines in				
Unit IV	Figure drawing & Character design	8				
	aracters, character variations. Human anatomy parts like hand, legs, a parts, drawing quick sketches, gesture drawings.	arms, eyes,				
Unit V	Sketching for Visuals	10				
Make a sketch for a comm	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	07-06-2021					
Date of approval by the Academic Council	14/11/2021					



Course Outcome ForAN3101

Unit-wise Course Outcome	Descriptions	BL Level	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
	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	Prog	rogram Outcomes (Course Articulation Matrix (Highly Mapped- 3,											, Program Program			
Outcom		Moderate- 2, Low-1, Not related-0)										Specific Educ			ional	
es												Outcom	nes	Outcomes		
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO	
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3	
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	



GD3101	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					
Basics of Sketching & Dra of vector and raster graphic	wing, Elements and principles of design, Introduction to graphic elemencs, pixels.	ts.understanding					
Unit II	Tools	9					
graphics using lines, librari	oftware workspace, tools and techniques; understanding symbols and lay ies, pen tool brush tool, erazer tool.customizing default workspace.						
Unit III	Visual Art	10					
	el draw, design greeting card on photoshop, design kid's magazine on photoshop on corel draw.understanding colors and its visual meaning.	otoshop, 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	Designing Brand Identity						
Reference Books	Photoshop CS6 in simple steps (by Kogent learning solutions Incdrea	am tech press)					
Mode of Evaluation	Internal and External Assessment						
Recommendation by Board of Studies on	07-06-2021						
Oate of approval by the Academic Council 14/11/2021							



Course Outcome ForGD3101

Unit-wise Course Outcome	Descriptions	BL Level	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
	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 GD3101

Course											P	rogram	Specific		Progra
Outcomes												Outco	omes		m
	Prog	gram O		es (Cou					hly Ma	apped-					Educati
			3, M	Ioderate	e- 2, Lo						onal				
															Outcom
	DO	DO.	DO.	DO 4	DO.	DO.	DO.	DO.	DO.	DO.	DCC	DCC	DEC	DEC	es
	PO	PO 2	PO 3	PO4	PO 5	PO	PO 7	PO 8	PO 9	PO 10	PSO	PSO 2	PEO	PEO 2	PEO 3
	1	2	3		3	6	/	0	9	10	1	2	1	2	3
GO 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				U		1	3	1	3	3		3	3		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	1	1								1				1	
CO 3	3	1	1	3	1	3	2	3	1	1	3	2	0	2	2
Avg	1.0	1.0	2.2	1.4	2	2	2	1.0		2		2	2		1.6
	1.8	1.8	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
		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, can importance of storyboard	nera angles, movements, transitions, zoom in zoom out, Pan, Dolly sl ling.	not, tilt shot.
Unit II	Composition techniques	9
Camera height, 180 degree types of shots, understand	ee rule, rule of third, birds eye view, Staging, Interior and exterior fra	ming. different
Unit III	Techniques of Perspective	10
	ee point perspective, POV shot, POV projectile, dynamic angles, low in perspective. human form in perspective, drawing different archete	
Unit IV	Editing Techniques	10
Cut to next shot, cut zoor cross cut, impact flash.ur	m in, cut zoom out, reveal frame, camera snap, photo to scene, montanderstand time lapse.	ge sequence,
Unit V	Elements of storyboarding	9
	ns, storyboard notations: BG, CS, ECS, MS, MCS, LS, WS, EWS, dint arrows, creating storyboard for a story.	alogue, 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	07-06-2021	
Date of approval by the Academic Council	14/11/2021	

Course Outcome For AN 3102



Unit-wise Course Outcome	Descriptions	BL Level	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	P	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0) Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Program Specific Educational												P	rogram
Outcomes				Mode	erate- 2	, Low-	1, Not	related	-0)			S	Specific	Ed	ucational
												О	utcomes	O	utcomes
	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	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 digital effects	LTPC
		3 0 0 3



Version No.	1.1	
Course Prerequisites	Nil	
Objectives	Study of this subject will familiarize the students with the Role of	
	Digital effects.	
Expected Outcome	On completion of the course students should he able to: Develop	
	understanding of different vfx styles, use of effects in user interface,	
Unit No.	basic software knowledge to accomplish the perticular effects. Unit Title	No. of hours
Cint 140.	om The	(per Unit)
Unit I	Definition of Digital effects	5
	gital Effects, Use of effects in Animation, VFX and UI.	
Unit II	Effects use Digitally	8
	K, Role of Major VFX films, their Directors and VFX Breakdowns. Maj	or digital artworks.
Different VFX types and tec		
Unit III	Digital Formats	9
Major Digital formats:		
1) Image ratios and impl		
,	om different sources – defining layers and settings in illustrator	
3) Effects for UI		
Unit IV	Common VFX	7
	cts for Animation with famous examples:	
a. Keying – Chroma, Lig	thting etc.	
b. Color Correction		
c. Miniatures		
d. Stop Motion		
e. Animatronics		
Unit V	Software for Digital Effects	6
	nd its working: illustrator and after effects. role of VFX software's and jo	h availability for
VFX artist.	a to working, mastator and area effects, fore or 1711 software a and jo	o availability for
Text Books	1. The filmmakers guide to visual effects by EranDinur	
Reference Books	The filmmakers guide to visual effects by EranDinur	
	Illustration Now!, Volume 2 by JuliusWiedemann	
Mode of Evaluation	Internal and External Assessment	
Recommendation by	07-06-2021	
Board of Studies on	U/-U0-2U21	
Date of approval by the	14/11/2021	
Academic Council	11/11/2021	

Course Outcome ForAN3103



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the meaning of Digital effects, effects in Animation & VFX.	1	Emp
CO2	Understand the meaning of Digital effects, effects in Animation & VFX.	2	S
	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.	1	S
CO4	Understand the color theory in Photoshop software.	2	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	2	Emp

CO-PO Mapping for AN3103

Course	F	rogram	Outco	mes (0	Course	Articu	ly	Prog	gram]	Program				
Outcom		Map	ped-3	, Mode	erate- 2	2, Low-	-1, No	t relate	d-0)		Spe	cific	Ed	ducation	al
es											Outc	omes		Outcome	S
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2		3	3				-								
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
00.4	U			U		1		1			U	U		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



	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		
Unit No.	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	TLR, exposure, aperture, shutter-speed, iso, depth of field, accesso camera settings.	ries.
Unit III	Composition & lighting	6
	phs (view point, arrangement) rule of thirds, rule of diagonals, har	
Composition of photogra	phs (view point, arrangement) rule of thirds, rule of diagonals, har	
Composition of photogra Lab- practical on lighting	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition.	d light & soft light,
Composition of photogra Lab- practical on lighting	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition. Photo Editing	d light & soft light,
Composition of photogra Lab- practical on lighting Unit IV Basics of editing fundam Unit V	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition. Photo Editing entals, color correction, details reading, Lab- Photoshop	d light & soft light,
Composition of photogra Lab- practical on lighting Unit IV Basics of editing fundam Unit V Use of lights and their co	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition. Photo Editing entals, color correction, details reading, Lab- Photoshop Lights & Combination	d light & soft light,
Composition of photogra Lab- practical on lighting Unit IV Basics of editing fundam Unit V Use of lights and their co Practical in still studio.	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition. Photo Editing entals, color correction, details reading, Lab- Photoshop Lights & Combination mbination, artificial lights, natural lights, how to use reflectors. La	d light & soft light,
Composition of photogra Lab- practical on lighting Unit IV Basics of editing fundam Unit V Use of lights and their co Practical in still studio. Text Books	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition. Photo Editing entals, color correction, details reading, Lab- Photoshop Lights & Combination mbination, artificial lights, natural lights, how to use reflectors. La	d light & soft light,
Composition of photogra Lab- practical on lighting Unit IV Basics of editing fundam Unit V Use of lights and their co Practical in still studio. Text Books Reference Books	phs (view point, arrangement) rule of thirds, rule of diagonals, har and composition. Photo Editing entals, color correction, details reading, Lab- Photoshop Lights & Combination mbination, artificial lights, natural lights, how to use reflectors. La 1. The Beginners' photography Guide by Jess Ross	d light & soft light,



Course Outcome ForJM3106

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Student should able to memorize about concept of	4	none
	photography and its process, camera parts and features		
CO2	Student should able to understand about the types of camera and lenses and their modes	3	S
	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		Emp

CO-PO Mapping for JM3106

Course	P	rogran	n Outco	omes (Course	nly	Prog	gram]	Program	1				
Outcom		Maj	pped-3	3, Mod	erate- 2		Spe	cific	E	ducation	al				
es											Outc	omes	(Outcome	S
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
00.2	3	3			3		1			3					
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



VP3101	Title: Personality Development Program	LTPC
Version No.	2.0	0 0 4 2
Course Prerequisites	Nil	
Objectives	To develop wholesome personality of students with major emphasis	
Objectives	on spoken English communication.	
Expected Outcome	This VAP-1 Course will be beneficial and helpful in developing all possible dimensions of an effective personality of an individual student pursuing any professional course. The learning outcome of designed VAP course is the wholesome development of an individual personality and the enrichment of English Communication which helps students to become successful in his or her career pursuits.	
Unit No.	Unit Title	No. of hours (per
		Unit)
Unit I-	Personality Development : Meaning, Importance of Personality development, Determinants of Personality, Maslow Need Hierarchy Theory	06
Unit II-	Communication skills:Introducing Oneself effectively, Developing following parts of communication skills: Listening Skills - Activity for enriching listening skills. Speaking Skills - Extempore, Situational conversation	05
Unit III-	Speaking Skills contd. - vocabulary games, Storytelling, Just a minute, Volte- Face, Short Speech, Role plays, Face-off, , (groupwise), Group Discussion Debate, Presentation	05
Unit IV-	Reading Skills - Passage reading, News Paper, Success stories, Writing Skills - Passage writing, letter, email etiquettes, applications, project writing, invitations, resume writing	05
Unit V-	Self management: Goal Setting, SWOT analysis, Self Motivation Body language: Gestures & Postures, Facial Expressions, Physical Appearance Soft Skills: Leadership skills, Team work, Image building skills, Interpersonal skills	06
Suggesting Readings:	TEDX Talks; Body language by Allan and Barbara Pease; United Nation Proceedings; Body language of World leaders (Documentary); Cambridg Dictionary; Collins Dictionary; Professional Communication by Tata McPublishing	ge Open Online
Mode of Evaluation	Internal and External Examinations	
Recommendation by Board of Studies on	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Course Outcome For VP3101

Unit-wise Course Outcome	Descriptions	BL Lev el	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 VP3101

Course	P				Course		ıly		ram	Program Educational					
Outcom		Maj	pped-3	3, Mod	erate- 2	2, Low	-1, No	t relate	d-0)			cific	Outcomes		
es											Outc	omes			
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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 disby nature beyond the human control as well as the disasters and environmer induced by human activities with emphasis on disaster preparedness, resported recovery.	ntal hazards ase and
Expected Outcome	Enhance the knowledge by providing existing models in risk reduction strat prevent major causalities during disaster.	egies to
Unit No.	Unit Title	No. of hours (per Unit)
Unit: 1	Introduction on Disaster	5
Disaster: such as Fire, Indus	: A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc B trial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, R and Bridge), War and Terrorism etc. Causes, effects and practical examples f	ail and Road),
Unit II	Risk and Vulnerability Analysis	4
Risk: Its concept and analys for Vulnerability Reduction	is 2. Risk Reduction 3. Vulnerability: Its concept and analysis 4. Strategic De	velopment
Unit III	Disaster Preparedness	5
MeasuresofDisaster. Ro	cept and Nature, Disaster Preparedness Plan Prediction, Early Warnings and Sole of Information, Education, Communication, and Training, Role of Governess. Role of IT in Disaster Preparedness. Role of Engineers on DisasterMana	nment,
Unit IV	Disaster Response	5
Search, Rescue, Evacuation	onse Plan Communication, Participation, and Activation of Emergency Preparand Logistic Management Role of Government, International and NGO Bodi Management (Trauma, Stress, Rumorand Panic). Reliefand Recovery Medical Heal ters	es
Unit V	Rehabilitation, Reconstruction and Recovery	5
Measures. Creation of Long Construction Sanitation ar Counter Disaster Planning R		ng-term
Text Books	1. Bhattacharya, Disaster Science and Management, McGraw Hill Educatio	n Pvt. Ltd.
Reference Books	 Dr. Mrinalini Pandey, Disaster Management, Wiley India Pvt.Ltd. Jagbir Singh, Disaster Management: Future Challenges and Opportunit Publishers Pvt.Ltd. 	ies, KW
Mode of Evaluation	Internal and External Examinations	
Board of Studies on	5/13/2020	
Date of approval by the Academic Council	9/13/2020	



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		

CO-PO Mapping for CE3101

Course	Prog	gram Oı	utcomes	(Cours	e Articu	ılation I	Matrix (Highly	Mapped	l- 3, Mod	lerate- 2,	Pre	ogram Sp	ecific
Outcomes					Low	-1, Not	related-	-0)					Outcom	es
	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
GO 4														
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
						1					3	1		
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														
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							
CoursePrer equisites	Nil							
Objectives	Theaimisdevelopinquiringmindsandcuriosityaboutscienceandthenaturalworld.Itwill helpstudentstothinkanalytically,criticallyandcreativelytosolveproblems, judgeargumentsandmakedecisionsinscientificandothercontexts.Makingstudentsaw arehowtoprotecttheEnvironment.							
Expect edOutc	SafeguardingtheEnvironmentandalsodevelopawarenesstotheSocietynottofurther deteriorateit andalsosafeguardit							
ome	XI tomba	No.ofhour						
UnitNo.	UnitTitle Introduction to Engineery contaction & Engagement							
UnitI	IntroductiontoEnvironmentalStudies&Ecosystems	5						
FunctionofEcosyste	ronmental Studies, Scope and Importance, Need for public awareness. What is an ecosystem case studies of the different ecosystems like forest, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and a quatice cosystems like for est, grassland, desert and grassland like for est, grassland like							
UnitII	Natural Resources	6						
usechange;Landdeg exploitationofsurfactured droughts,conflictso	-renewableResources,Landresourcesandland- gradation,soilerosionanddesertification.Deforestation:Causesandimpacts.Water:Usean ceandgroundwater,floods, verwater(international&inter-state).Energyresources:Renewableand gysources,useofalternateenergy.sources,growingenergyneedsandcasestudies.	ndover-						
UnitIII	Media &EnvironmentalDisaster	6						
patterns nation;Endangereda wildlifeconflicts,bid Ecosystemandbiodi	cal diversity: genetic, species and ecosystem diversity; Biogeographic zones of Inc andglobalbiodiversity hotspots.Indiaasam andendemicspeciesofIndia.Threatstobiodiversity:Habitatloss,poachingofwildlife,man blogicalinvasions;Conservationofbiodiversity. versityservices:Ecological,economic,social,ethical,aestheticandInformationalvalue.	ega-biodiversity -						
UnitIV	Environmental Pollution	5						
	sandcontrols; Air, water, soilandnoise pollution. Nuclearhazards and human healthrisks. Solme as ure sofur banandindustrial waste.	onawaste						
TextBooks	1. P. CJoshi&Namita JoshiATextBookofEnvironmental Science, A.P.H.Pub. 2. DrB. SChauhanEnvironmentalStudies, Laxmi Publication.	NewDelhi.						
ReferenceBooks	AnubhaKaushik&C. P. KaushikEnvironmentalStudies,NewAgeIntern MishraD.D.,fundamentalconceptinenvirmentalstudies,SChand&Con N.Arumugam,EnvironmentStudies(UCGsyllabus), Saraspublicati MahuaBasu,FundamentalsofEnvironment studies,Cambridgeuniversit	npany on.						
ModeofE valuation	InternalandExternalExamination							
Recommendati onby Board ofStudies on	15/06/2020							
Dateofapprova lby the AcademicCou ncil	13/09/2020							



Course Outcomes for CY3502

Unit-wise CourseOutcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/Entrepreneurship (Ent)/ None(<i>Use</i> , 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-PO Mapping for CY3205

Course Outcomes	Progr	am Outc	erate-	Program Specific Outcomes								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	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 2 0 4 4						
Version No.	1.0	2 0 4 4						
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	tions in 2d.						
Unit No.	Unit Title	No. of Hrs						
Unit I	Workspace overview	10						
Interface of Animate Pane	els (property inspector, library panel, movie explorer, history panel, color panel, ti	meline.						
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	Unit I II Working with flash document							
About flash files, working with libraries and its item,	with project, importing art work into flash, working with PSD files, PSD file imp layer system.	ort, 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 animaticating human walk, animal walk, create bouncing ball.	ion, creating key						
Text Books	Animation survival kit							
Reference Books	Adobe flash professional CS classroom in a book (by adobe creative team) Adobe flash CS6 in simple steps (by Kogent learning solutions Incdream tech	1						
Mode of Evaluation	Internal and External Assessment							
Recommended by Board of Studied on	07-06-2021							
Date of Approval by the Academic Council on	14/11/2021							



Course Outcome ForAN3201

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
	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
	Understand the working in flash documents in the animation software.	3	S
	Understand the basics of vector and raster graphics, different format of flash and Photoshop files.	3	Ent
	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	Prog	ram Oı	ıtcome	s (Cou	se Arti	culatio	n Matr	ix (Hig	hly Ma	pped-	Program		Program Educational		
Outcomes			3, M	oderate	e- 2, Lo	w-1, N	ot relat	ted-0)			Spe	cific	Outcomes		
											Outc	omes			
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
	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	2	1		2	1	2	2	2	1	1	2	2		2	2
	3	1		3	1	2	2	3	I	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	No. of hours (per Unit)
Unit I	Language of cinema	11
Sound, Screen Sound; Syno Unit II	Continuity Editing, Montage, Focus on Sound and Color: Diegetic and c Sound; the use of Color as a stylistic Element. movie format and res Types of Cinema	olution.
Third Cinema, Non fiction cinema,	cinema, Early cinema, development of classical Hollywood cinema. S	tudio era, parallel
Unit III	Indian Cinema	13
	dio Era, 1950s - Cinema and the Nation (Guru Dutt, Raj Kapoor, Mehobalization and Indian Cinema.	boob), 1970s - The
Unit IV	Production techniques-I	12
	ling Concept, Character descrption and designing, Storyboarding techn, designing a short film on paper.	iques,
Text Books	1. Keval J. Kumar, Mass communication in India, Jaico.	
Reference Books	 Renu Saran, History of Indian cinema, Kindle edition Sarkar N.N. Dvesigning Print Communication, Saga 	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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
	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

Course	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped-3, Moderate-2, Low-1, Not related-0)										Program Program Educational			
Outcomes			3, Mo	oderate	- 2, Lo	w-1, N	ot relat	ed-0)				cific	(Outcome	S
			•					•	•		Outc	omes			
	PO	PO2	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1		3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	2	2	1	2	2	•	1	2	2	2	2	2	1	2	2
	3	3	1	2	3	2	1	2	2	3	2	3	1	2	2
CO 2	_		_	0			2		2		_	2	2	1	_
	2		2	0		1	3		3		2	3	3	l	2
CO 3	_		0	0	_		0	2	_	_	0	0	_	2	
	2	2	0	0	2	1	0	3	2	2	0	0	3	3	1
CO 4	_		_		_		_	_		_	_	_	_	0	
	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				
	ware, interaction with interface, workspace, how to import or export files in antages over raster graphics.traditional drawing practice of design elements					
Unit II	Creating vector art forms (Photoshop/illustrator)	9				
Create characters, backgrounds, environments, design vehicles in vector form, Create different art works in photoshop, sketching all the characters on paper.						
Unit III	Digital concept art (Photoshop/illustrator)	9				
Create a hyrid character, desi	gn a cartoon character, both with background origin story.	1				
Unit IV	Color theory	10				
	tout of some images, colour adjustment of some images, colour adjustment to black and white, placing different background for the images.	t of images,				
Unit V	Digital design assignments assignments	8				
Creating vector art characters, traditional drawing of differen	, vector art backgrounds, 1 digital painting-portrait, 1 props design, 1 digitant geometric shapes	l landscape design,				
Text Books	Animated Storytelling					
Reference Books	Photoshop CS6 in simple steps (by Kogent learning solutions Incdream	tech press)				
Mode of Evaluation	Internal and External Assessment					
Recommendation by Board of Studies on	07-06-2021					
Date of approval by the Academic Council	14/11/2021					



Course Outcome ForGD3202

Unit-wise Course Outcome	Descriptions	BL Level	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	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped-											Program Program Education Specific Outcomes			
Outcomes		3, Moderate- 2, Low-1, Not related-0)											(Outcome	S	
											Outc	omes				
	PO	PO	PO	PO	PO	PO6	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO	
	1	2	3	4	5		7	8	9	0	1	2	1	2	3	
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	

	Title: Introduction to classical animation	LTPC
AN3203		3 0 0 3



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					
	nator's drawing tools, difference between 2d and 3d animation, stop malassical animation, importance of 2d artist.	otion techniques,					
Unit II	2d animation drawing	10					
	Types of pencils, beginnig life drawing, still life, environment study, observational drawing, using geometric shape human anatomy study, basic proportions of male and female anatomy.						
Unit III	Understanding poses	9					
	egerating different human poses in action, drawing linces, circles, zig z mal and human poses and gestures.	ag lines. Drawing					
Unit IV	Animation	8					
Rule of animation, warm up character, Character express	exercises, drawing from memory, observation and imagination, creating ions. Walk cycle.	ng animation					
Unit V	Drawing assignments	10					
Create 5 pages of figure dra	wing, 5 pages of quick poses, draw 5 pages of eyes, hands, arms and fo	oot construction.					
Text Books	Animation survival kit						
Reference Books	The everything drawing book: from basic shapes to people and anims south).	al (by-Helen					
Mode of Evaluation	Internal and External Assessment						
Recommendation by Board of Studies on	07-06-2021						
Date of approval by the Academic Council	14/11/2021						



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

Course Outcomes	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped-3, Moderate-2, Low-1, Not related-0)										gram cific	Program Educational Outcomes		
											Outc	omes			
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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



VP3215	Title: Audio Editing	L T P C 0 0 4 2	
Version No.	1.0	0 0 1 2	
Course Prerequisites	Nil		
Objectives	This course is designed to introduce the Audio-video editing yo the students		
Expected Outcome	On completion of the course students should be able to: understand an create editing projects.		
Unit No.	Unit Title	No. of hours (per Unit)	
Unit I	Introduction to Editing	11	
compression.Introduction a	software, workflow, adding footage, frame rates, aspect ratio, all types audition, Audio Clip, Manipulating audio, Auto trim/crop, mute, DC offs ade in/out, insert silence, bit depth converter etc.		
Unit II	Digital audio principle	9	
Understanding audio forma like .WAV, .AIFF, .MP3, .s	its, audio output, progresive Vs interlaced, Understanding various digital swf, .WMA etc.	l audio formats	
Unit III	Basic audio editing	8	
Moving edited clip. Event t (attack/sustain/release), etc.	t, Layers, Ripple edit, Razor tool, Understanding all tools on toolbox for tool: move, split, slip and trim multiple events, create fades, apply ASR. Understanding script editor window. Spectrum analysis tools, scrub too, zero crossings), sampler tool etc.		
Unit IV	The art of audio editing	10	
narration content. Audio ed envelopes. Edit, record, enc tracks, balancing sound leve audio and video	job availability, pacing, When and how to apply, estalishing the portfolioliting: workflow, real time editing, event based editing, waveform volume code and master digital audio, editing audio by drag and drop options, creating smooth fades etc. Understanding Multichannel audio record	ne and pan oss fading audio ding, synchronize	
Unit V	Creating audio effects	10	
Applying various types of a	audio transitions, blur, noise, speeding the audio, various audio effects.		
Text Books	Digital Audio Editing: Correcting and Enhancing Audio in Pro Too Cubase, and Studio One	ls, Logic Pro,	
Reference Books	Adobe premiere pro CS6 classroom in a book (by adobe creative team) Adobe press	
Mode of Evaluation	Internal and External Assessment		
Recommendation by Board of Studies on	07-06-2021		
Date of approval by the Academic Council	14/11/2021		



Course Outcome ForVP3215

Unit-wise Course Outcome	Descriptions	BL Level	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 VP3215

Course	F	rogran	n Outc	omes (Course	ly	Prog	gram	Program						
Outcomes		Mapped- 3, Moderate- 2, Low-1, Not related-0)											Educational		
											Outcomes		Outcomes		
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2					3		1								
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
G 0 4	1		1	U	3	1		3			1			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
	1	1	1	3	1		3	3	2.2	1	3		1		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.ofhour s(perUnit)
Unit I	Introduction to Maya	14
The Maya Interface, Viewpo	orts, Selecting Objects, Transforming Objects, Connecting Objects, Managing Fi	les. Maya
Unit II	Mismodeling	08
Creating the NURBS Curves	s in Maya, Modellingusing NURBS, NURBS Patches in Maya. Surface Editing to	ools.
Unit III	Polygonal Modeling	08
Creating Polygonal Surfaces modeling	, Modifying Polygonal Surfaces, Modellingusing Polygonal Method. Deformers	for
Unit IV	Lighting	05
The Importance of Lighting, T	Types of Lights, Shadows, Lighting Effects, Lighting a Scene. Basic Exterior &	interior lighting
Unit V	Creating Textures	10
	g Shaders, The Hypershade, Textures, Bump and Displacement Mapping, Placing Multiple Textures, Map for game Assert.	ng
Text Books	Maya®ataGlancebyGeorgeMaestri	
Reference Books	Introducing Maya 2017by DariushDerakhshani	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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 Outcomes	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped-3, Moderate-2, Low-1, Not related-0)										Program Specific		Program Education Outcomes		
									Outc	omes						
	PO	PO	PO3	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO	
	1	2		4	5	6	7	8	9	0	1	2	1	2	3	
CO 1	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		
		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	velop the		
Unit II	Modelling and Texturing the character	10		
	lygons, Modellingwith Polygon Tools, Working with Symmetry, Using Imag	ge Planes,		
Sculpting the Character, I	Develop the easy way to working with 3d Application.			
Unit III	Modelling and Texturing the character using sub division	9 ponents.		
Unit III Concepts of Modellingwi Techniques for Texturing	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio	ponents,		
Unit III Concepts of Modellingwir Techniques for Texturing a low poly character for g	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio	ponents,		
Unit III Concepts of Modellingwir Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Human	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio saming pipeline.	ponents, n Surfaces,Create 10 so and Limbs,		
Unit III Concepts of Modellingwir Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hums Shaping and Refining the	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio saming pipeline. Designing a Humanoid an Anatomy for Modelers, Methods and Tools, Modelling the Humanoid Tors	ponents, n Surfaces,Create 10 so and Limbs,		
Unit III Concepts of Modellingwi Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hums Shaping and Refining the Unit V Deformers, Blend Shapes	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio 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 anat	ponents, n Surfaces,Create 10 so and Limbs, omy		
Unit III Concepts of Modellingwir Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hums Shaping and Refining the Unit V Deformers, Blend Shapes application.	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio 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 anat Deformations and Rigging	ponents, n Surfaces,Create 10 so and Limbs, omy		
Unit III Concepts of Modellingwir Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hums Shaping and Refining the Unit V	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio 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 anat Deformations and Rigging , Skeletons and Rigging, Creating Skeleton. Draw the required blend shape be	ponents, n Surfaces,Create 10 so and Limbs, omy		
Unit III Concepts of Modellingwi Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hums Shaping and Refining the Unit V Deformers, Blend Shapes application. Textbooks Reference Books	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio 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 anat Deformations and Rigging , Skeletons and Rigging, Creating Skeleton. Draw the required blend shape be Maya®ataGlancebyGeorgeMaestri	ponents, n Surfaces,Create 10 so and Limbs, omy		
Unit III Concepts of Modellingwir Techniques for Texturing a low poly character for g Unit IV Modellingthe Head, Hums Shaping and Refining the Unit V Deformers, Blend Shapes application. Textbooks	Modelling and Texturing the character using sub division th Subdivision Surfaces, Subdivision Surfaces Levels, Refining Surface Com Subdivision Surfaces, Designing and Modelling a Character with Subdivisio 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 anat Deformations and Rigging , Skeletons and Rigging, Creating Skeleton. Draw the required blend shape be Maya®ataGlancebyGeorgeMaestri Beginners Guide To Character Creation In Maya by Jahirul Amin	ponents, n Surfaces,Create 10 so and Limbs, omy		



Unit-wise Course Outcome	Descriptions	BL Level	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	F	rogran	1 Outco	omes (C	Course	Articu	ly	Prog	gram	Program					
Outcomes		Mapped- 3, Moderate- 2, Low-1, Not related-0)											Educational		
											Outc	omes	Outcomes		
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
	3	3	3		3		1			3	3	3			
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
A	3	J			U			0	0				1		
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



AN3303	Title:Print Media	LTP C
		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(p erUnit)
Unit I	Introduction of News	8
News, Meaning&Definition, News	Elements & Types of News, News Value, Selection of news, News Sources.	, Objective of
UnitII	Challenges before Media	8
	ia, Comparison between online media & print media, Criteria for good news	s, Pattern of writing
UnitIII	Presentation	8
Use of Illustrations in News Editorial Page, Page 3 Case	spaper, Design, Cartoons, Line Diagrams ,Style of Presentation of News Study	paper & Magazıne,
UnitIV	Pagination & Layout	8
Practical Layout of Newspap	er &Magazine, Creation of Newspaper &Magazine on Quark Express &InD	esign
UnitV	Designing of page	8
Designing of Page of Newspa	aper Magazines	
Textbooks	Handbook of Print Media: Technologies and Production Methods	
Reference Books ModeofEvaluation	InternalandExternal Assessment	
RecommendationbyB oardofStudieson	07-06-2021	
DateofapprovalbytheAc ademicCouncil	14/11/2021	



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

Course	Prog	ram Ou			se Arti	pped-	Program Specific		Progra	ational					
Outcomes		3, Moderate- 2, Low-1, Not related-0)											Outcomes		
										Outc			1		
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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		_	0	_	_	0	2	0	2	0		-	_	2	2
	1	3	0	2	3	0	3	0	3	0	l	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
		1	3	1		3	3			1	3	3		3	
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		
	omposition, Viewport and Timeline, Animation and Transform Properties, Shag with layer option in the timeline panel.	pe Layer,		
Unit II Animation Principles and Types of Key frames and Graph Editors				
Principles of Animation, T	ypes of Key frames, and Graph Editors, Speed Graph & Value Graph for motio	n graph		
Unit III	Shape Modifiers from A to Z	9		
Merge Path, Offset Path, Pression	ucker& Bloat, Round Corner, Trim Path, Wiggle Path, ZigZag, Repeater and W	/iggler,		
Unit IV	Text Animation	9		
Understanding different type effects.	bes of text animation and animation techniques ,Working with walk cycle anim	ation in After		
Unit V	Modern Data Visualization and Practice with Real projects	8		
Animation Techniques, Mo	orphing Animation, Lettering Animation and Real Projects ,Effects Animation			
Text Books	Animated Storytelling by Liz Blazer is an excellent resource on general animated book talks about the basics of motion graphics and how animation works from perspective.			
Reference Books	Disney Animation: The Illusion of Life Book by Frank Thomas and Olli The Animator's Survival kit by Richard Williams	ie Johnston		
Mode of Evaluation	Internal and External Assessment			
Recommendation by Board of Studies on	07-06-2021	07-06-2021		
Date of approval by the Academic Council	14/11/2021			



Unit-wise Course Outcome	Descriptions	BL Level	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	Prog	ram Ou	itcomes	(Cour	se Arti	culatio	n Matri	x (Hig	hly Ma	pped-	Prog	ram	Progra	Program Educational		
Outcomes			3, Mo	oderate	- 2, Lo	w-1, N	ot relat	ed-0)			Spec	cific	(Outcomes		
											Outc	omes				
	PO	PO2	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO	
	1		3	4	5	6	7	8	9	0	1	2	1	2	3	
CO 1	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	
	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	
	3		3	3		3	3			1	3	3	3	3		
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, Express	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 techniques by Mark Christiansen						
Reference Books	 After Effects Apprentice by Chris and Trish Meyer Creating Motion Graphics with After Effects, 5th edition by Chris Meyer 						
Mode of Evaluation	Internal and External Assessment						
Recommendation by Board of Studies on	07-06-2021						
Date of approval by the Academic Council	14/11/2021						



Unit-wise Course Outcome	Descriptions	BL Level	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	Prog	ram Ou	itcomes	(Cour	se Arti	culation	n Matri	x (High	nly Ma	pped-	Prog	ram	Progra	ım Educ	ational
Outcomes			3, Mo	oderate	- 2, Lo	w-1, N	ot relat	ed-0)			Spec	cific	Outcomes		
											Outc	omes			
	PO	PO2	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1		3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
CO 2	3	3	3		3		1			3	3	3			
CO 2	2	2	2	3	0	2	2	2	2	3	0	3	3	1	0
CO 3	1	2		_	2	0	2		0	0	2	•	2	2	2
	I	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	2	1	0	1	2	2	2	1	2	2	2	1	2	2	2
	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
		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	On completion of the course students should be able to: understand to	
Outcome	video editing	
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Intro to Editing Theory	9
	history of film editing, the manipulation of editing, introduction to the editor arrative structure., Study about pre-production	as storyteller,
Unit II	Intro to Premiere Pro Cs6	9
Screening of Examp footage	oles, The Premiere Pro CS -6 interface, features and functions, how to impor-	rt and organize
basic editing technic	ques, Learn about Footage File extension.	
Unit III	Editing Exercise -Lab-1	9
	chnique, 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 Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Course Outcome ForVP3315

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
	Understand the workspace of premier pro software with proficiency	2	Emp
CO2	Understand the use of workspace and different panels.	2	S
	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
	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	Prog	ram Ou	itcomes	s (Cours	se Artic	culation	n Matri	x (High	nly Ma	pped-	Prog	gram	Progra	ım Educ	ational
Outcomes			3, M	oderate-	- 2, Lov	<i>w</i> -1, No	ot relate	ed-0)			_	cific	Outcomes		
											Outc	omes			
	PO1	PO	PO	PO4	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
		2	3		5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2	3			0			1								
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3		2	2	_	2		2	0	0		0	2	_	2	2
	l	3	3	2	3	l	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	2	1	2	1	2	2	2	2	•	1	2	2	2	1	2
	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.	Unit Title	No. of hours (per Unit)
Unit I	DrawingBasics	
practice for general and archi	ment's and materials their use, care & maintenance, safety precautions. tectural drawings. • Importance of lettering and figures sizes, proportio damentals, units and measurements	
Unit II	ArchitectureDesign	
table, Rules of Architecture is Imaging, Application& usage	incipal of Planning, Method of Drawing, Rules ®ulation, General In in Designing and approach of planning, Building types, Zoning Regulations of Digital Image, Image Mapping, Viewing Animation	
Unit III	3DsMax	
Introduction & Applications floor plans and drawings	of 3Ds Max, UCS Co-ordination System, Shortcut keys, Function keys.	understanding
Unit IV	Modeling	
Introduction of Modeling, Fe	atures of Modeling., Modifiers – Bend Modifier, Extrude, and Surface	vertex weld
Modifier, Scene – Built a 3D	environment with material, light and cameras. Units setup and measure	ement in 3d
Unit V	Texturing & Lighting	
	nder to texture tool, Various scene elements into texture, Lighting, Use ighting situation. Render elements, post processing.	s of Lighting,
Text Books	Autodesk 3ds Max for Beginners A Comprehensive Guide	
Reference Books	2. Autodesk 3ds Max Bible	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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
	Understand 3ds max interface, coordinate system and remember shortcuts keys.	2	S
	Create 3d objects and apply materials, light and cameras in 3d scenes.	3	Ent
CO5	Create textures and apply photorealistic light.	5	None

Course	Prog	ram Oı			se Arti			hly Ma	pped-		gram	Program Educational			
Outcomes			3, M	oderate	e- 2, Lo	w-1, N	ot relat	ed-0)			Specific Outcomes			S	
											Outc	omes			
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	2	2	2	0	2	2	1	2	2	2	2	2	2	2	2
	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
00.2	1				U						U	U	1	U	U
CO 3	2	3	3	1	3	1	3	1	0	1	2	2	2	3	1
CO 4	2	2	1	2	2	2	2	2	2	0	1	1	2	0	2
	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 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
	oving Objects in the 3D Space, Maya View Tools, Layouts, Saved Layouting and Parenting, Polygonal modeling, NURBS Modelling.outliner, hyp	
Cint 11	Rendering Overview	10
	a renders, Shader Networks, Shading Groups, Materials, Lights, Maya ard Graph, IPR (Interactive Photo realistic Rendering)Concepts of UDIM	chitecture,
Unit III	Lighting	10
Reason for light linking – ma	n, techniques for each, Light Linking, New linking to Objects (and sets) vectoring live footage lighting, Light attributes – What you're adjusting and tensity Curves, 3 point light system	
Unit IV	Shadows	8
Shadow Techniques (For real	Why to use, Reuse / Share depth maps, Ray traced, What, When and why ism and Optimization), Adding hard or soft shadows to a scene, Shafts of on for shadow problems, rendering layer	
Unit V	Shading	10
refractions and caustics Tran	erview Opaque materials: diffuse and reflections Transmissive materials as smissive materials pt2: sub-surface scattering Mixing materials, shellac, alterations: anisotropy, bump, normal and displacement, Arnold AO, Map	varnishes
Text Books	Autodesk Maya A Comprehensive Guide	
Reference Books	Maya at glance	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	07-06-2021	
Date of approval by the	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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 Outcomes	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped-3, Moderate-2, Low-1, Not related-0)										gram cific omes	_	m Educa Outcome	
	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PSO 1	PSO 2	PEO 1	PEO 2	PEO 3
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



AN3403	Title: Trackingand Match Moving	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 Title	No. of hours (per Unit)				
Unit I	Tracking overview	6				
Fundamental of Tracking Artracking, Motion blur, Came	nd Match Moving and industry uses, Explains 2d and 3d tracking, explains era Rig, Tracker Point	s camera				
Unit II	Init II 2D Tracking					
	ting Process, Track Placement: Making Every Track Count, Exploring the Aing, camera handling and adding track points	Anatomy of a				
Unit III	Using Mocha/After effect	10				
Mocha Basics, Workspac Working with scan data	re, tracking in Mocha, Applying Tracking Data, Fine-Tune the track, stabili	zing footage,				
Unit IV	The Basics of Match moving	8				
•	chnique, Analyzing the Movement, Creating the Proxy Object Exploring a Match move / Motion Tracking, Tracking in nuke	Typical				
Unit V Using PFTrack						
PFTrack Basics, Workspa	ace, camera tracking in PfTrack, Object Tracking, Solving, Exporting distortion	rted plate				
PFTrack Basics, Workspa	ace, camera tracking in PfTrack, Object Tracking ,Solving ,Exporting distormatch moving: The Invisible Art of Camera Tracking, 2nd Edition	orted plate				
, <u> </u>		orted plate				
Text Books	Match moving: The Invisible Art of Camera Tracking, 2nd Edition	orted plate				
Text Books Reference Books	Match moving: The Invisible Art of Camera Tracking, 2nd Edition Match moving: The Invisible Art of Camera Tracking, 2nd Edition	prted plate				



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
CO1	Understand the fundamentals of tracking and match moving.	2	Emp
	Understand the Track 2d objects and replace objects form live action footage	2	S
	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 Outcomes	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)									Prog	gram cific	Program Educational Outcomes		
Outcomes			IVIO	dcrate-	2, LOW	-1, 1101	Terated	1-0)			Outc			Outcom	23
	PO	PO2	PO	PO4	PO	РО	PO	РО	РО	PO1	PSO	PSO	PEO	PEO	PEO3
	1		3		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



Semester-5

		T
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
	Deep focus, Continuity Editing, Montage, Focus on Sound and Color correct; the use of Color as a stylistic Element	etion and balance,
Unit II	Types of Cinema	9
Fiction Cinema, Non-fiction	on cinema, Early cinema, development of classical Hollywood cinema, Rise	of south cinema.
Unit III	Indian Cinema	9
Early Cinema and the Stud of the Angry Man, Globali	lio Era, 1950s - Cinema and the Nation (Guru Dutt, Raj Kapoor, Mehboob), zation and Indian Cinema	1970s - The Rise
Unit IV	Production techniques-I	8
Writing Script, Understand Shots types, Types of shots	ling Concept, Character description and designing, Storyboarding techniques and camera angles.	es, Understanding
Unit V	Production techniques-II	9
Responsibility of the cinemark Books	natographer, Refining the story, Cinematography tools and techniques. 1. Keval J. Kumar, Mass communication in India, Jaico Publish	ing house
TCAL DUURS	1. Kevai 3. Kumai, mass communication in muia, jaico Publish	ing nouse.
Reference Books	 Renu Saran, History of Indian cinema, Kindle edition Five C's of cinematography by Joseph Rogers, MM Mukh 	i& sons
Mode of Evaluation	Internal and External Assessment	



Date of approval by the Academic Council	14/11/2021

Course Outcome ForJM3403

Unit-wise Course Outcome	Descriptions	BL Level	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
	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
	Understand the roles and responsibilities of the cinematographer and its tool and techniques.	5	None

CO-PO Mapping for JM3403

Course	Prog	Program Outcomes (Course Articulation Matrix (Highly Mapped									Program		Program Educational		
Outcomes			3, M	oderate	- 2, Lo	w-1, N	ot relat	ed-0)			Spec		Outcomes		S
											Outcomes				
	PO	PO2	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1		3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	2	2	2	0	2	2	1	2	2	1	3	3	2	2	2
		3	3	U	3	2	1	2	2	1	3	3	2		2
CO 2	2	2	2	3	0	2	3	1	2	3	2	0	1	0	0
CO 3	2	1	2	2	2	•	2	0	2	1	0	1	2	2	2
	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
	3	1	5	5	1	U	5			1	1	5			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	1045						
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						
	tion, INTRODUCTION, create particles, create emitters, Modify the rende Use the Hardware Renderer, Apply different types of fields and pre-defin							
Unit II	Introduction to nParticles							
• Create nParticles • Collide r the force fields, Introduction	nParticles with geometry • Simulate liquids • Work with the Maya Nucleus to soft bodies simulation	s solver • Use						
Unit III	Introduction to Fluids	10						
	of fluids in Maya • Apply the dynamic and non-dynamic fluid effects • Mo aid containers • Add ocean and pond effects to your scene • Connect Ma							
Unit IV	Introduction to nHair	8						
Apply nHair to objects • Sin	nulate nHair • Paint textures on nHair, Ai Shading network for hairs							
Unit V	Introduction to Bifrost/ Bullet Physics	10						
	ntal concept of Bifrost • Create and optimize Bifrost fluids • Add collider is particles• Work with rigid and soft bodies • Create a soft body • Create rticles							
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								



Date of approval by the	14/11/2021
Academic Council	

Unit-wise Course Outcome	Descriptions	BL Level	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	Prog	ram Ou				pped-	Program		Program Educational						
Outcomes			3, Mo	oderate	- 2, Lo	w-1, N	ot relat	ed-0)			Specific		Outcomes		
											Outc	omes			
	PO	PO2	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1		3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	1	1	0	2	2	2	2	2	3	3	2	2	2	2
	5	1	1	U											
CO 2	2	2	2	3	0	2	3	2	2	3	3	0	1	0	0
CO 3	1	2	2	2	2	0	1	0	0	1	0	•	2	2	2
	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	_	1	2	_	_	2	2	_	2	0	2	_	_	1	_
	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



VP3414	Title:Clay Modelling and Sculptures	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 rule of clay modeling.								
Expected Outcome	On complition of course the student should be able to create clay models using diffferent sculpting techniques.								
Unit No.									
Unit I	Unit I Basics of Drawing and Sketching								
Understanding poses through	sketches, human muscle study 3D objects, Lighting and Shading.								
Unit II Types of Modelling									
Different types of sculpting t	echniques, usage of different types of clay.	1							
Unit III	Understanding tools and Techniques	4							
Tools required, wire framing	, armature clay modeling, converting character sketch into wireframe.								
Unit IV	Assignment- I	4							
Create a human hand using c	lay techniques(first draw the sketch).	•							
Unit V	Assignment- II	6							
Create character design with	the help of clay.								
Text Books	1. Beginner guide to sculpting character in clay- 3D total publishing	<u> </u>							
Reference Books	2. Beginner guide to sculpting character in clay–3D total publishing								
Mode of Evaluation	Internal and External Assessment								
Recommendation by Board of Studies on	07-06-2021								
Date of approval by the Academic Council	14/11/2021								



Unit-wise Course Outcome	Descriptions	BL Level	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	Prog	ram Oı	utcome						hly Ma	pped-	Program		Program Educational		
Outcomes			3, M	oderate	e- 2, Lo	w-I, N	ot relat	ed-0)			Spe Outc	cific omes	Outcomes		
	PO										PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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



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	
	ciples, Animation tools in 3D, "Applying classical 2D animation to acter". Bridging the gap between 2d and 3d Animation	echniques i.e;
Unit II		
	ight, Overview of Maya's playback controls, on preferences. Details about graph editor, Bouncing Ball Exercise inderstood weight Graph Editor	, Body language.,
	notion path, Utilizing the trax-editor to blend animation clips. Con	trolling attributes
	animation clip for game animation	doming attributes
Unit IV	Constrains	
Animating with constraints	s, Previewing animations in real-time with play blasts,	
Introduction to scene anim	ation and key framing, dope sheet. Camera Animation	
Unit V	Animation	
and pulling objects. Facial	snakes and birds. Biped Character walk cycles, Biped Character ru animation and lip-sync. Nonlinear Animation with trax editor. Wo aracter 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	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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 Outcomes	Prog	ram Oı			rse Arti e- 2, Lo	pped-		gram cific	Program Educational Outcomes						
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PSO 1	PSO 2	PEO 1	PEO 2	PEO 3
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
	OUCTION, create particles, create emitters, Modify the render a are Renderer, Apply different types of fields and pre-defined eff	
Unit II	Introduction to nParticles	10
• Create nParticles • Collide nParticles wit force fields	h geometry • Simulate liquids • Work with the Maya Nucleus so	olver • Use the
Unit III	Introduction to Fluids	10
	aya • Apply the dynamic and non-dynamic fluid effects • Modifier • Add ocean and pond effects to your scene • Connect Maya field • Add ocean and pond effects to your scene • Connect Maya field • Add ocean and pond effects to your scene • Connect Maya field • Add ocean and pond effects to your scene • Connect Maya field • Add ocean and pond effects • Add ocean an	
Unit IV	Introduction to nHair	7
• Apply nHair to objects • Simulate nHair	Paint textures on nHair	
Unit V	Introduction to Bifrost/Bullet Physics	10
	Bifrost • Create and optimize Bifrost fluids • Add collider to Bifrigid and soft bodies • Create a soft body • Create constraints	ost fluids •
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	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
	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
	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	Prog	ram Oı	utcome	s (Cou	se Arti	pped-	Program		Program Educational						
Outcomes			3, M	oderate	e- 2, Lo	w-1, N	ot relat	ed-0)			Spe	cific	Outcomes		
											Outc	omes			
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	2	3	3	0	3	2	3	2	2	1	3	1	0	2	2
~ .		3	3	U	3		3			1	3	1	U		
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
		1.0	∠.⊤	1.0		1.0	4.4		Τ.Τ	1.0	۷.٦		1.0	1.0	1.7



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 system	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 constrains and implementation to rig. Maintaining trols, rigging the characters, Use of deformers in rigging process	proper hierarchy,
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	nmended.
Reference Books	Introducing Maya 2017 by DariushDerakhshani.	
	*Latest editions of all the suggested books are recommende	d.
Mode of Evaluation	Internal and External Assessment	
Mode of Evaluation Recommendation by Board of Studies on		



Course outcome			
Unit-wise Course Outcome	Descriptions	BL Level	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	Prog	gram O	utcome	s (Cou	rse Arti	culatio	pped-	Prog	gram	Program Educational					
Outcomes			3, M	oderate	e- 2, Lo	w-1, N	ot relat	ed-0)			Spe	cific	Outcomes		S
											Outc	omes			
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
	3	3	3	U	3		1			3	3	3			
CO 2	2	2	2	3	0	2	0	2	1	3	1	0	1	2	0
CO 3	_	_	_	_	_		2		0		•		_	2	2
	0	3	0	2	3	l	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	2	1	2	1	2	2	2	2	2	1	2	2	2	1	2
	3	I	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



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	On completion of the course students should be able to create different sound design and multi track mixing.	
Unit No.	Unit Title	No. of hours (per Unit)
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
formats like .WAV, .AIFF, .I		
Unit III	Understanding tools	6
Moving edited clip. Event to (attack/sustain/release), etc. 1	Layers, Ripple edit, Razor tool, understanding all tools on toolbox for ed ol: move, split, slip and trim multiple events, create fades, apply ASR Understanding script editor window. Spectrum analysis tools, scrub tool of C offset, zero crossings), sampler tool 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 portfolioning: workflow, real time editing, event based editing, waveform volume de and master digital audio, editing audio by drag and drop options, crost devels, creating smooth fades etc. Understanding Multichannel audio re Sound design	and pan s fading
multiple tracks, adjusting tra	dio transitions, blur, noise, speeding the audio, various audio effects. add ck time, musical instrument file processing	ling
Text Books	Adobe Soundbooth CS5	
Reference Books	 Electronic Music and Sound Design – by Alessandro Cipi 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 Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
	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
	Understand the Interpret & record vocal performances demonstrating variations in pitch, volume, rate, and vocal quality.	5	None

Course	Prog	ram Oı	gram	Program Educational											
Outcomes			3, M	oderate	e- 2, Lo	w-1, N	ot relat	ed-0)			Spec		(Outcome	S
											Outc	omes			
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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



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.	Unit Title	No. of hours (per Unit)
Unit I	Introduction to lighting	6
Lighting basic, Type of light	ght, three-point lighting, Explain Lighting Techniques Lighting Attribute	
Unit II	Maya Light / Arnold Light	10
Introduction to Maya light, l	ight type, rendering options, render Setting	1
Unit III	Shadow casting	6
Shadow Preview, Depth May	p Shadows, Ray Trace shadows. Shadow pass	
Unit IV	Image Based Lighting	10
Image Based Lighting wit image.	th HDRI, three-point lighting setup, creating realistic glass objects, Creating	g HDRI
Unit V	Lighting a scene for VFX	10
Render Layers and Render P	asses, Arnold materials, Advance lighting techniques, Arnold rendering	
Text Books	Advanced Maya Texturing and Lighting	
Reference Books	Lighting for Product Photography The Digital Photographer's Step-Guide to Sculpting with Light	-By-Step
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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 Outcomes	Prog	ram Oı	Program Educational Outcomes												
Outcomes			J, 1VI	oucran	e- 2, Lo	/W-1, 1V	ot iciai	icu-o)			Outc	cific omes		Jutcome	·3
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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 3 0 0 3
N7	11	
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	game art, Importance of concept art, figure drawing and creature anato	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
4) Script writing5) Storyboarding for gain6) Character design dev7) Game play		
Unit IV	Post production process	7
f. Audio recordingFX S g. Animatic recording h. Final voice over reco		
Unit V	Project Assignment	6
Creating the entire prepro	duction including script, storyboard variation, character design variatio	n.
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	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Course o	outcome For ANSS07		
Unit-wise Course Outcome	Descriptions	BL Level	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	rogran	n Outc	omes (Course	ıly	Prog	gram		Program	1				
Outcomes		Maj	pped-3	3, Mod	erate- 2	2, Low	-1, No	t relate	d-0)		Spe		Educational		
								Outc	omes	Outcomes					
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	2	3	2	1	2	2	3	3	3	2	2	2
00.2	3	3	3		3		1			3	3	3			
CO 2	2	2	2	0	2	1	3	1	3	3	2	3	3	2	3
CO 3	_	_	_	0	_	1	_	1		_	0	0	2	2	1
	0	2	2	0	2	1	2	I		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
Arra	<i>J</i>	<u> </u>											0		
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 3 0 0 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	Defining Aesthetics	5
Definition & Meaning of A	Aesthetics, Role of balance, color, movement, pattern, scale, shape and v	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 and unity	sis, proportion, hierarchy, repetition, rhythm, pattern, white space, move	ement, variety,
Unit IV	Typography	7
Using different types of f as print media, electronic	onts and understanding its implementation, Using typography in differential.	ent mediums using
Unit V	Project Assignment	6
Creating the entire produc	ct design for print media and electronic media.	
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	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Course Outcome ForVP3514

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use, for more than One)
	Understand & design the graphics in vector graphics for different mediums of designing.	2	Emp
	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
	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				Course		ıly	-	gram	Program Educational					
Outcomes		Ma]	ppea- :	s, Moa	erate- 2	2, Low	-1, No	t relate	(a-0)		Spe Outc		Outcomes		
	РО	PO	РО	РО	РО	PO1	PSO	PSO	PEO	PEO	PEO				
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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	L T P C 2 0 2 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	Defining Rigging	5
solvers, LRA- Local rotation what to do/don't with George		rt rigging in Maya
Unit II	Implementing rigging	8
Alignment of pivot points	ting Conversion, Deformers - Uses of deformers, Lattice, wrap, cluster, Colorizing the Controls, Locking Extra Attributes, Parenting, Marnting, Renaming, Constraints,	naging Layers and
Unit III	Features of rigging -1	9
Unit IV	Features if rigging-2	7
IK FK Blending, how to cre Spine setup, Hand control a Game Character Rig	or leg, IK-FK with one setup, eate Foot Control and Setup,	
Unit V	Project Assignment	6
Low poly Character Skin	, 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	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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	Prog	ram Oı	utcome						hly Ma	pped-		gram	Program Educational		
Outcomes			3, M	oderate	e- 2, Lo	w-1, N	ot relat	ed-0)				cific	Outcomes		
											Outc	omes			
	PO	PO								PO1	PSO	PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	2	2	2	0	3	2	1	2	2	2	2	3	2	2	2
	3	3	3	U	3		1		2	3	3	3			2
CO 2	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3															
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	2	1	2	3	2
	2	1	1	3		3	1	3		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	1.0	_	2.2	2.2	1.0	1.6	2.2	1.0	1.0	2	1.0	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



AN3602	Title: Character Animation	L T P C 2 0 4 4
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 anim	ator, Body language, character attitude, character interaction, Live Acting for	r Students
Unit II		8
Character Description, backs	ground story Method Acting	
Unit III		9
Acting for weight pull and p	ush, Acting for dialog animation, About Facial Expression.	
Unit IV		7
Stage acting, Storyboard ar	nd script, Screen Play.	
Unit V		6
Animation principles brief, v Students Act with Animation	with examples, n 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	07-06-2021	
Date of approval by the Academic Council	14/11/2021	



Course Outcome ForJM3602

Unit-wise Course Outcome	Descriptions	BL Level	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

CO-PO Mapping for JM3602

Course	Pr		Outco				у	Progr		Program					
Outcomes		Map	ped- 3,	Mode	rate- 2,	, Low-	1, Not	related	l-0)		Speci	fic	Educational		
											Outco	mes	Outcomes		
	PO	PO										PSO	PEO	PEO	PEO
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO 1	3	3	3	0	3	2	1	2	2	3	3	3	2	2	2
CO 2							-								
002	2	2	2	3	0	2	3	2	2	3	0	0	1	0	0
CO 3	1	2	2	2	2	1	2	0	0	1	0	2	2	2	2
	I	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
	3	1	3	1		3	3			1	3	3		1	
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 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	tions in 2d.
Unit No.	Unit Title	No. of Hrs.
Unit I	Facial animation	10
	Blend shape, Facial Rig test, Key Frames, Extremes, Breakdowns, Sketch for Exp	
Unit II	Expressions	10
What are the 21 facial ex	pressions? expression sheet, Different type of eye blink & eye movement, X-sheet	for Expression
Unit I II	Character expressions	11
Expression with dialog. I export/Import Expression	Emotion and expression, Biped character expression. Animation layer for expression,	n, How to
Unit IV	Expression sheets	10
TwelveRulesforExpression Character	on, 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		
Text Books	Animation survival kit	
Reference Books	Adobe flash professional CS classroom in a book (by adobe creative team) 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	07-06-2021	
Date of Approval by the Academic Council on	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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	rogran				ly	Prog	gram		Program	1				
Outcomes		Maj	pped- 3	3, Mod	erate- 2	2, Low	-1, No	t relate	d-0)		Spe	cific	Educational		
											Outc	omes	Outcomes		
	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO				
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
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:GameDesign&Development						
VersionNo.	1.0						
CoursePrerequisites							
Objectives	StudyofthissubjectwillfamiliarizewithGamedesignanddevelopment.						
ExpectedOutcome	On completion of the course students should be able to design basicgames.						
UnitNo.	UnitTitle	No. ofhours(pe rUnit)					
UnitI	GameEngines	8					
EngineConcepts,Developm	entTools,IntroducingUnity,IDEBasics,UnityConcepts,Sprites						
UnitII	IntroductiontoScripting	10					
C#LanguageConcepts,Crea	tingScripts,C#CodingFundamentals,GameLoopsandFunctions						
UnitIII	SimpleMovementandInput	8					
SimpleMovement,SimpleR	otationandScaling,EasyInputHandlinginUnity,						
UnitIV	PhysicsConcepts	10					
	tyColliders,PhysicsMaterials,ScriptingCollisionEvents						
UnitV	Animation	10					
	imatorStates,ScriptingAnimations,AnimationsandColliders	10					
TextBooks	1.Beginning3DGameDevelopmentwithUnityAll-in-one,multi-platformgame	edevelopment					
ReferenceBooks	2. C#GameProgrammingCookbookforUnity3D3. LearningC#byDevelopingGameswithUnity3DBeginner'sGuide.						
ModeofEvaluation	InternalandExternalAssessment						
Recommendation byBoardofStudieson	07- 06- 2022						
Date of approval by theAcademicCouncil	14/11/2021						



Unit-wise Course Outcome	Descriptions	BL Level	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 Outcomes	Program Outcomes (Course Articulation Matrix (Highly Mapped- 3, Moderate- 2, Low-1, Not related-0)											gram cific omes	E	Program Educational Outcomes	
	PO	РО	РО	РО	РО	PSO	PSO	PEO	PEO	PEO					
	1	2	3	4	5	PO 6	PO 7	PO 8	PO 9	PO1 0	1	2	1	2	3
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	
Course Prerequisites	Nil	
Objectives	To impart practical knowledge about Experimental Printing. This course designed to introduce the basics Designs and Graphics for Print Meditechniques 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. 	
	Quartz press.	
Expected Outcome	On completion of the course students should be able to: understand and create editing and will understand the elements and designing of newspaper.	ohc
Unit No.	Unit Title	No. of hours (per Unit)
Unit I	Basics Designs for Print Media	4
Aesthetics of design; Eleme	ents and Principles of design; Typeface families; Principles of good typography	
Unit II	Basics of Graphics for Print Media	5
Meaning and Concept; Imp	ortance of Graphics; Recent Developments in the field of Graphics.	- 1
Unit III	Type Composition and Printing Method	9
Type composition; DTP and	d use of computer software; Printing methods- letterpress, Cylinder, Rotary, Grav	ıre, Screen, Offset.
Unit IV	DTP Software's	3
	low to work on work environment, color palette, how to import and export file), (ouark Express(tool
	ork environment, color palette, document layout palette, how to import and export	
Unit V	Practice of Designing	5
Designing a layout of leafle Designing a front page of n	t and letter head, Design a poster on current issue, Designing of cover page of a newspaper.	agazine,
Text Books	M V Kamath- Modern Journalism, Vikas Publishing House, NewDelhi. Publications M K Joseph- Basic Source Material for News Writing, Anmol Sarkar, N.N. Principles of Art and Production, Oxford University Press.	Publications.
Reference Books	,	
Mode of Evaluation	Internal and External Assessment	
Recommendation by Board of Studies on	07-06-2021	
Date of Approval by the Academic Council on	14/11/2021	



Unit-wise Course Outcome	Descriptions	BL Level	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	F				Course					ıly	Prog	1				
Outcomes	Mapped- 3, Moderate- 2, Low-1, Not related-0)											Specific Educational				
						Outc	Outcome	S								
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PSO	PSO	PEO	PEO	PEO	
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3	
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	