

ROYAL SCHOOL OF COMMUNICATIONS AND MEDIA (RSCOM)

COURSE STRUCTURE & SYLLABUS (BASED ON NATIONAL EDUCATION POLICY 2020)

For

B.Sc. IN ANIMATION AND VISUAL EFFECTS (4 years Single Major)

W.E.F

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Preamble

The National Education Policy (NEP) 2020 conceives a new vision for India's higher education system. It recognizes that higher education plays an extremely important role in promoting equity, human as well as societal well-being and in developing India as envisioned in its Constitution. It is desired that higher education will significantly contribute towards sustainable livelihoods and economic development of the nation as India moves towards becoming a knowledge economy and society.

If we focus on the 21st century requirements, the higher education framework of the nation must aim to develop good, thoughtful, well-rounded, and creative individuals and must enable an individual to study one or more specialized areas of interest at a deep level, and also develop character, ethical and Constitutional values, intellectual curiosity, scientific temper, creativity, spirit of service, and twenty-first-century capabilities across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational subjects. A higher quality education should be capable enough to enable personal accomplishment and enlightenment, constructive public engagement, and productive contribution to the society. Overall, it should focus on preparing students for more meaningful and satisfying lives and work roles and enable economic independence.

Towards the attainment of holistic and multidisciplinary education, the flexible curricula of the University will include credit-based courses, projects in the areas of community engagement and service, environmental education, and value-based education. As part of holistic education, students will also be provided with opportunities for internships with local industries, businesses, artists, crafts persons, and so on, as well as research internships with faculty and researchers at the University, so that students may actively engage with the practical aspects of their learning and thereby improve their employability.

The undergraduate curriculums are diverse and have varied subjects to be covered to meet the needs of the programs. As per the recommendations of the UGC,

introduction of courses related to Indian Knowledge System (IKS) is being incorporated in the curriculum structure which encompasses all of the systematized disciplines of Knowledge which were developed to a high degree of sophistication in India from ancient times and all of the traditions and practices that the various communities of India—including the tribal communities—have evolved, refined and preserved over generations, like for example Vedic Mathematics, Vedangas, Indian Astronomy, Fine Arts, Metallurgy, etc.

At RGU, we are committed that at the societal level, higher education will enable each student to develop themselves to be an enlightened, socially conscious, knowledgeable, and skilled citizen who can find and implement robust solutions to its own problems. For the students at the University, Higher education is expected to form the basis for knowledge creation and innovation thereby contributing to a more vibrant, socially engaged, cooperative community leading towards a happier, cohesive, cultured, productive, innovative, progressive, and prosperous nation."

Introduction

The National Education Policy (NEP) 2020 clearly indicates that higher education plays an extremely important role in promoting human as well as societal well-being in India. As envisioned in the 21st-century requirements, quality higher education must aim to develop good, thoughtful, well-rounded, and creative individuals. According to the new education policy, assessments of educational approaches in undergraduate education will integrate the humanities and arts with Science, Technology, Engineering and Mathematics (STEM) that will lead to positive learning outcomes. This will lead to develop creativity and innovation, critical thinking and higher-order thinking capacities, problem-solving abilities, teamwork, communication skills, more in-depth learning, and mastery of curricula across fields, increases in social and moral awareness, etc., besides general engagement and enjoyment of learning and more in-depth learning.

The NEP highlights that the following fundamental principles that have a direct bearing on the curricula would guide the education system at large, viz.

- i. Recognizing, identifying, and fostering the unique capabilities of each student to promote her/his holistic development.
- ii. Flexibility, so that learners can select their learning trajectories and programmes and thereby choose their own paths in life according to their talents and interests.
- iii. Multidisciplinary and holistic education across the sciences, social sciences, arts,

- humanities, and sports for a multidisciplinary world.
- iv. Emphasis on conceptual understanding rather than rote learning, critical thinking to encourage logical decision-making and innovation; ethics and human & constitutional values, and life skills such as communication, teamwork, leadership, and resilience.
- v. Extensive use of technology in teaching and learning, removing language barriers, increasing access for Divyang students, and educational planning and management.
- vi. Respect for diversity and respect for the local context in all curricula, pedagogy, and policy.
- vii. Equity and inclusion as the cornerstone of all educational decisions to ensure that all students can thrive in the education system and the institutional environment are responsive to differences to ensure that high-quality education is available for all.
- viii. Rootedness and pride in India, and its rich, diverse, ancient, and modern culture, languages, knowledge systems, and traditions.

Approach to Curriculum Planning

Choice Based Credit System (CBCS) By UGC

Under the CBCS system, the requirement for awarding a degree or diploma or certificates prescribed in terms of number of credits to be earned by the students. This framework is being implemented in several universities across States in India. The main highlights of CBCS are as below [2]:

- The CBCS provides flexibility in designing curriculum and assigning credits based on the course content and learning hours.
- The CBCS provides for a system wherein students can take courses of their choice, learn at their own pace, undergo additional courses, and acquire more than the required credits, and adopt an interdisciplinary approach to learning.
- CBCS also provides an opportunity for vertical mobility to students from a bachelor's degree programmes to masters and research degree programmes.

Definitions

Academic Credit:

An academic credit is a unit by which a course is weighted. It is fixed by the number of hours of instructions offered per week. As per the National Credit Framework [2].

1 Credit = 30 NOTIONAL CREDIT HOURS (NCH)

Yearly Learning Hours = 1200 Notional Hours (40 Credits x 30 NCH)

30 Notional Credit Hours					
Lecture/Tutorial Practicum Experiential Learning					
1 Credit = 15 -22 Lecture Hours	10-15 Practicum Hours	0-8 Experiential Learning Hours			

Course of Study:

Course of study indicate pursuance of study in a particular discipline/programme. Discipline/Programmes shall offer Major Courses (Core), Minor Courses, Skill Enhancement Courses (SEC), Value Added Courses (VAC), Ability Enhancement Compulsory Courses (AECCs) and Interdisciplinary courses.

Disciplinary Major:

The major would provide the opportunity for a student to pursue in-depth study of a particular subject or discipline. Students may be allowed to change major within the broad discipline at the end of the second semester by giving her/him sufficient time to explore interdisciplinary courses during the first year. Advanced-level disciplinary/interdisciplinary courses, a course in research methodology, and a project/dissertation will be conducted in the seventh semester. The final semester will be devoted to seminar presentation, preparation, and submission of project report/dissertation. The project work/dissertation will be on a topic in the disciplinary programme of study or an interdisciplinary topic.

Disciplinary/interdisciplinary minors:

Students will have the option to choose courses from disciplinary/interdisciplinary minors and skill-based courses. Students who take a sufficient number of courses in a discipline or an interdisciplinary area of study other than the chosen major will qualify for a minor in that discipline or in the chosen interdisciplinary area of study. A student may declare the choice of the minor at the end of the second semester, after exploring various courses.

Courses from Other Disciplines (Interdisciplinary):

All UG students are required to undergo 3 introductory-level courses relating to any of the broad disciplines given below. These courses are intended to broaden the intellectual experience and form part of liberal arts and science education. Students are not allowed to choose or repeat courses already undergone at the higher secondary level (12th class) in the proposed major and minor stream under this category.

Natural and Physical Sciences: Students can choose basic courses from disciplines such as Natural Science, for example, Biology, Botany, Zoology, Biotechnology, Biochemistry, Chemistry, Physics, Biophysics, Astronomy and Astrophysics, Earth and Environmental Sciences, etc.

- i. Mathematics, Statistics, and Computer Applications: Courses under this category will facilitate the students to use and apply tools and techniques in their major and minor disciplines. The course may include training in programming software like Python among others and applications software like STATA, SPSS, Tally, etc. Basic courses under this category will be helpful for science and social science in data analysis and the application of quantitative tools.
- *ii. Library, Information, and Media Sciences:* Courses from this category will help the students to understand the recent developments in information and media science (journalism, mass media, and communication)
- *iii. Commerce and Management:* Courses include business management, accountancy, finance, financial institutions, fintech, etc.,
- iv. Humanities and Social Sciences: The courses relating to Social Sciences, for example, Anthropology, Communication and Media, Economics, History, Linguistics, Political Science, Psychology, Social Work, Sociology, etc. will enable students to understand the individuals and their social behaviour, society, and nation. Students be introduced to survey methodology and available large-scale databases for India. The courses under humanities include, for example, Archaeology, History, Comparative Literature, Arts & Creative expressions, Creative Writing and Literature, language(s), Philosophy, etc., and interdisciplinary courses relating to humanities. The list of Courses can include interdisciplinary subjects such as Cognitive Science, Environmental Science, Gender Studies, Global Environment & Health, International Relations, Political Economy and Development, Sustainable Development, Women's, and Gender Studies, etc. will be useful to understand society.

Value-Added Courses (VAC):

Understanding India: The course aims at enabling the students to acquire anddemonstrate the knowledge and understanding of contemporary India with its historical perspective, the basic framework of the goals and policies of national development, and the constitutional obligations with special emphasis on constitutional values and fundamental rights and duties. The course would also focus on developing an understanding among student-teachers of the Indian knowledge systems, the Indian education system, and the roles and obligations of teachers to the nation in general and to the school/community/society. The course will attempt to deepen knowledge about and understanding of India's freedom struggle and of the values and ideals that it represented to develop an appreciation of the contributions made by people of all sections and regions of the country, and help learners understand and cherish the values enshrined in the Indian Constitution and to prepare them for their roles and responsibilities as effective citizens of a democratic society.

- i. Environmental science/education: The course seeks to equip students with the ability to apply the acquired knowledge, skills, attitudes, and values required to take appropriate actions for mitigating the effects of environmental degradation, climate change, and pollution, effective waste management, conservation of biological diversity, management of biological resources, forest and wildlife conservation, and sustainable development and living. The course will also deepen the knowledge and understanding of India's environment in its totality, its interactive processes, and its effects on the futurequality of people's lives.
- *Digital and technological solutions:* Courses in cutting-edge areas that are fast gaining prominences, such as Artificial Intelligence (AI), 3-D machining, big data analysis, machine learning, drone technologies, and Deep learning with important applications to health, environment, and sustainable living that will be woven into undergraduate education for enhancing the employability of the youth.
- *Health & Wellness, Yoga education, sports, and fitness:* Course components relating to health and wellness seek to promote an optimal state of physical, emotional, intellectual, social, spiritual, and environmental well-being of a person. Sports and fitnessactivities will be organized outside the regular institutional working hours. Yoga education would focus on preparing the students physically and mentally for the integration of their physical, mental, and spiritual faculties, and equipping them with basic knowledge about one's personality,

maintaining self-discipline and self-control, to learn to handle oneself well in all life situations. The focus of sports and fitness components of the courses will be on the improvement of physical fitness including the improvement of various components of physical and skills-related fitness like strength, speed, coordination, endurance, and flexibility; acquisition of sports skills including motor skills as well as basic movement skills relevant to a particular sport; improvement of tactical abilities; and improvement of mental abilities.

These are a common pool of courses offered by different disciplines and aimed towards embedding ethical, cultural and constitutional values; promote critical thinking. Indian knowledge systems; scientific temperament of students.

Summer Internship / Apprenticeship:

The intention is induction into actual work situations. All students must undergo internships / Apprenticeships in a firm, industry, or organization or Training in labs with faculty and researchers in their own or other HEIs/research institutions during the *summer term*. Students should take up opportunities for internships with local industry, business organizations, health and allied areas, local governments (such as panchayats, municipalities), Parliament or elected representatives, media organizations, artists, crafts persons, and a wide variety of organizations so that students may actively engage with the practical side of their learning and, as a byproduct, further improve their employability. Students who wish to exit after the first two semesters will undergo 4-credit work-based learning/internship during the summer term to get a UG Certificate.

Community engagement and service: The curricular component of 'community engagement and service' seeks to expose students to the socio- economic issues in society so that the theoretical learnings can be supplemented by actual life experiences to generate solutions to real-life problems. This can be part of summer term activity or part of a major or minor course depending upon the major discipline.

Field-based learning/minor project: The field-based learning/minor project will attempt to provide opportunities for students to understand the different socio-economic contexts. It will aim at giving students exposure to development-related issues in rural and urban settings. It will provide opportunities for students to observe situations in rural and urban contexts, and to observe and study actual field situations regarding issues related to socioeconomic development. Students will be given opportunities to gain a first- handunderstanding of the policies, regulations, organizational structures, processes, and programmes that guide the

development process. They would have the opportunity to

gain an understanding of the complex socio-economic problems in the community, and innovative practices required to generate solutions to the identified problems. This may be a summer term project or part of a major or minor course depending on study.

Indian Knowledge System:

In view of the importance accorded in the NEP 2020 to rooting our curricula and pedagogy in the Indian context all the students who are enrolled in the four-year UG programmes should be encouraged to take an adequate number of courses in IKS so that the total credits of the courses taken in IKS amount to at least five per cent of the total mandated credits (i.e. min. 8 credits for a 4 yr. UGP & 6 credits for a 3 yr. UGP). The students may be encouraged to take these courses, preferably during the first four semesters of the UG programme. At least half of these mandated credits should be in courses in disciplines which are part of IKS and are related to the major field of specialization that the student is pursuing in the UG programme. They will be included as a part of the total mandated credits that the student is expected to take in the major field of specialization. The rest of the mandated credits in IKS can be included as a part of the mandated Multidisciplinary courses that are to be taken by every student. All the students should take a Foundational Course in Indian Knowledge System, which is designed to present an overall introduction to all the streams of IKS relevant to the UG programme. The foundational IKS course should be broad-based and cover introductory material on all aspects. Wherever possible, the students may be encouraged to choose a suitable topic related to IKS for their project work in the 7/8th semesters of the UG programme. [5]

(Note: Refer "Guidelines for Incorporating Indian Knowledge in Higher Education Curricula", University Grants Commission, March 2023 for further details)

Experiential Learning:

One of the most unique, practical & beneficial features of the National Credit Framework is assignment of credits/credit points/ weightage to the experiential learning including relevant experience and professional levels acquired/ proficiency/ professional levels of a learner/student. Experiential learning is of two types:

a. *Experiential learning as part of the curricular structure* of academic or vocational program. E.g., projects/OJT/internship/industrial attachments etc. This could be either within the Program- internship/ summer project undertaken relevant to the program being studied or as a part time employment (not relevant to the program being studied- up to certain NSQF level only). In case where

experiential learning is a part of the curricular structure the credits would be calculated and assigned as per basic principles of NCrF i.e., 40 credits for 1200 hours of notional learning.

b. *Experiential learning as active employment* (both wage and self) post completion of an academic or vocational program. This means that the experience attained by a person after undergoing a particular educational program shall be considered for assignment of credits. This could be either Full or Part time employment after undertaking an academic/ Vocation program.

In case where experiential learning is as a part of employment the learner would earn credits as weightage. The maximum credit points earned in this case shall be double of the credit points earnedwith respect to the qualification/ course completed. The credit earned and assigned by virtue of relevant experience would enable learners to progress in their career through the work hours put in during a job/employment

Award of Degree in Animation and Visual Effects

The structure and duration of undergraduate programmes of study offered by the University as per NEP 2020 include:

Undergraduate programmes of either 3 or 4-year duration with Single Major, with multiple entry and exit options, with appropriate certifications:

UG Certificate: Students who opt to exit after completion of the first year and have secured 40 credits will be awarded a UG certificate if, in addition, they complete one vocational course of 4 credits during the summer vacation of the first year. These students are allowed to re-enter the degree programme within three years and complete the degree programme within the stipulated maximum period of seven years.

UG Diploma: Students who opt to exit after completion of the second year and have secured 80 credits will be awarded the UG diploma if, in addition, they complete one vocational course of 4 credits during the summer vacation of the second year. These students are allowed to re-enter within a period of three years and complete the degree programme within the maximum period of seven years.

3-year UG Degree: Students who will undergo a 3-year UG programme will be awarded UG Degree in the Major discipline after successful completion of three years, securing 120 credits and satisfying the minimum credit requirement.

4-year UG Degree (**Honours**): A four-year UG Honours degree in the major discipline will be awarded to those who complete a four-year degree programme with 160 credits

and have satisfied the credit requirements as given in Table 6 in Section 5.

4-year UG Degree (Honours with Research): Students who secure 75% marks and above in the first six semesters and wish to undertake research at the undergraduate level can choose a research stream in the fourth year. They should do a research project or dissertation under the guidance of a Faculty Member of the University. The research project/dissertation will be in the major discipline. The students who secure 160 credits, including 12 credits from a research project/dissertation, will be awarded UG Degree (Honours with Research).

Award	Year	Credits to earn	Additional Credits	Re-entry allowed within (yrs)	Years to Complete
UG Certificate	1	40	4	3	7
UG Diploma	2	80	4	3	7
3-year UG Degree (Major)	3	120	X	X	x
4-year UG Degree (Honors)	4	160	X	х	X
4-year UG Degree Honors with Research) Students who secure cumulative 75% and above in the first six semesters					

Table: 1: Award of Degree and Credit Structure with ME-ME

Graduate Attributes

Sl.no.	Graduate Attribute	The Learning Outcomes Descriptors
GA1	Disciplinary Knowledge	A student will acquire knowledge and understanding of
		one or more disciplines. It will provide basic knowledge of
		Animation and Visual Effects use of creativity in CGI
		environment.
GA 2	Complex problem	The program focuses on good research and ability to
	solving	identify solution-based thinking, application of theoretical
		concepts to real life case studies on Animation enabling
		students to develop problem solving skills.
		The students will be able to apply analytical thought
		including the analysis and evaluation of policies, and

G	A 1 (10 C : 1	practices in the field of media and media relations. They
GA 3	Analytical & Critical	will be able to identify relevant assumptions or
	thinking	implications. Identify logical flaws and holes in the arguments of others. Analyze and synthesize data from a
		variety of sources and draw valid conclusions
		and support them with evidence and examples.
GA 4	Creativity	A student will be able to draw connections between the
UA 4	Creativity	knowledge gained and the creative task to be executed.
		Interpret the observations and sketch it into reality. A
		student will also be able Think 'out of the box' and
		generate solutions to complex problems in unfamiliar
		contexts by adopting innovative, imaginative, lateral
		thinking, interpersonal skills, and emotional intelligence.
GA 5	Communication Skills	A student will develop the ability listen carefully, read
		texts, and research papers analytically, and present
		complex information in a clear and concise manner to
		different groups/audiences
	Research-related skills	A Student will develop a keen sense of observation,
		inquiry, and capability for asking relevant/ appropriate
		questions. Should acquire the ability to problematize,
		synthesize and articulate issues and design research proposals, define problems, formulate appropriate and
		relevant research questions, formulate hypotheses, test
		hypotheses using quantitative and qualitative data,
		establish hypotheses, make inferences based on the
		analysis and interpretation of data, and predict cause-and-
		effect relationships. Should develop the ability to acquire
		the understanding of basic research ethics and skills in
		practicing/doing ethics in the field/ in personal research
		work.
GA 7	Collaboration	Capable of participating in project to work effectively and
		construct innovative end product in diverse teams both in
		classroom and in animation industry.
GA 8	Leadership	A student will be able to operate and organize plan the
	readiness/qualities	tasks of a team or an organization and setting direction by
		formulating an inspiring vision and building a team that
		can help achieve the vision.
GA 9	Digital and technological	Demonstrate and experiment by other digital gadgets for
	skills	learning, design, illustrate, and utilize relevant
		information using appropriate software for analysis of
		data and creation of product.
GA	Environmental	A student will identify the effects of environmental
10	awareness and action	degradation, climate change, and pollution. They will
		develop and illustrate the technique of spreading
		awareness on effective waste management, conservation
		of biological diversity, management of biological
		resources and biodiversity, forest, and wildlife

	conservation, and sustainable development and living by					
	producing	different	Information	Education	and	
	Communica	tion (IEC)	materials.			

Program Learning Outcomes (PLO)

PLO-1: Acquiring Knowledge of Animation and Visual effects

A systematic or coherent understanding of the academic field of Animation, its different learning areas and applications, and its linkages with related disciplinary areas/subjects. Procedural knowledge that creates different types of professionals related to Animation & Visual effects area of study, including research and development, teaching and government and public service.

PLO-2: Ability of solving complex problem

The students attain ability to quickly identify the problem and applying critical thinking skills and problemsolving analysis in all dimensions of development and production

PLO-3 - Analytical & Critical thinking

The students will be able to apply analytical thought including the analysis and evaluation of policies, and practices in the field of media and media relations. Ability to understand and skills will be enhanced for identifying problems and issues relating to Animation and Visual effects

PLO-4: Develop and Demonstrate Creativity

A student will be able to demonstrate, perform, or think in different and diverse ways by using tools of new media about the objects and scenarios in the field of multimedia and deal with problems and situations that do not have simple solutions. They will be able to think 'out of the box' and generate solutions to complex problems in unfamiliar contexts by adopting innovative, imaginative, lateral thinking, interpersonal skills, and emotional intelligence.

PLO-5: Enhance and Execute Communication Skills

The students will develop the ability to listen carefully, read texts and research papers analytically, and present complex information in a clear and concise manner to different groups/audiences through various means of communication. A student will be able to express thoughts and ideas effectively in writing, through films and orally and communicate with others using appropriate media technologies.

PLO-6: Formulate Research-related skills

A Student will develop a keen sense of observation, inquiry, and capability for asking relevant/appropriate questions. Should acquire the ability to problematize, synthesize and articulate issues and design research proposals, define problems, formulate appropriate and relevant research questions, formulate hypotheses, test hypotheses using quantitative and qualitative data, establish hypotheses, make inferences based on the analysis and interpretation of data, and predict cause-and-effect relationships. Students will develop the ability to acquire the understanding of basic research ethics and skills in

practicing/doing ethics in the field/ in personal research work.

PLO-7: Collaboration

Capable to work effectively and respectfully with diverse teams in the classroom and in the media industry in the interests of a common cause and work efficiently as a member of a team.

PLO-8: Develop Leadership readiness/qualities

A student will be able to organize and operate the tasks of a team or an organization and setting direction by formulating an inspiring vision and building a team that can help achieve the vision.

PLO-9: Execute Digital and technological skills

The student will outline and examine using computers and other digital devices for learning, design, illustrate and utilize relevant information by using appropriate software is for analyzing of data and generate media related projects.

PLO 10: Identifying environmental issues, its awareness and action

A student will identify the effects of environmental degradation, climate change, and pollution. They will develop the technique and illustrate awareness on effective waste management, conservation of biological diversity, management of biological resources and biodiversity, forest and wildlife conservation, and sustainable development and living by producing different Information Education and Communication (IEC) materials.

Programme Specific Outcomes

PSO1: Integration of the concept, principles, and theories involved in the subject of animation and visual effects in all aspects

PSO2: Ability to identify and solve complex societal problems using different new media platforms.

PSO3: Student will be able to use their analytical thought in understanding different policies related to new media and its relationship in society.

PSO4: The student will be able to demonstrate 'out of the box' ideas by adopting innovative, imaginative, communicative skills and emotional intelligence.

PSO5: Ability to prepare, compare, and present complex information in a clear and concise manner to audience through various effective communication skills.

PSO6: Student will acquire the ability to identify and analyze societal related issues and design research proposals, understanding research & new media ethics, establish hypotheses and predict cause-and-effect relationships.

PSO7: Student will be skillful to connect and work effectively with diverse team of new

media in the dynamic new media industry.

PSO8: Working effectively with different team members, student will devise and developa leadership quality that can help them to achieve the vision in life.

PSO9: Student will demonstrate skills related to various digital devices, computers and appropriate software for analyzing data and new media related projects.

PSO10: Student will develop techniques and illustrate environmental awareness by producing different Information Education and Communication (IEC) materials.

Teaching Learning Process

Teaching and learning in this programme involve classroom lectures as well as tutorial and remedial classes.

Tutorial classes: Tutorials allow closer interaction between students and teacher as each student gets individual attention. The tutorials are conducted for students who are unable to achieve average grades in their weekly assessments. Tutorials are divided into three categories, viz. discussion-based tutorials (focusing on deeper exploration of course content through discussions and debates), problem-solving tutorials (focusing on problem solving processes and quantitative reasoning), and Q&A tutorials (students ask questions about course content and assignments and consolidate their learning in the guiding presence of the tutor).

Flip classroom: flip classroom allows lecture content from face-to-face class time to before class by assigning it as homework. This allows for more interactive forms of learning to take place during class

Experiential Learning: Experiential learning is a part of the academic curricular of the Animation and visual effects program. Following methods are adopted for Experiential Learning:

- Participating in intra and inter University competition, clubs of the university
- Extra-curricular activities like cultural activities, community outreach programmes,
- Projects and Portfolio
- OJT
- Internship
- Workshop and interacting with expert from the field
- Field trip, excursions, study tour, etc.
- Seminars and conferences organized in the department and University

Remedial classes: The remedial classes are conducted for students who achieve average and above average grades in their weekly assessments. The focus is laid to equip the students to perform better in

the exams/assessments. The students are divided into small groups to provide dedicated learning support. Tutors are assigned to provide extra time and resources to help them understand concepts with advanced nuances. Small groups allow tutors to address their specific needs and monitor them. Following methods are adopted for tutorial and remedial classes:

- Written assignments and projects submitted by students
- Project or assignment -based learning
- Group discussions
- Home assignments
- Class tests, quizzes, debates organized in the department

Assessment Methods

	Component of Evaluation	Marks	Frequency	Cod e	Weightage (%)
A	Continuous Evaluation				
i	Analysis/Class test	Combination	1-3	С	
ii	Home Assignment	of any three	1-3	Н	
iii	Project	from	1	P	
iv	PPT Presentation	(i) to (v) with	1-2	S	25%
V	Viva	5marks each	1-2	V	
vi	MSE	MSE shall be of 10 marks	1-3	Q/C T	
vii	Attendance	Attendance shall be of 5 marks	100%	A	5%
В	Semester End Examination		1	SEE	70%
	Project				100%

PROGRAME STRUCTURE

Royal School of Communication and Media B.Sc. Animation and Visual Effects

1st Semester

Sl. No.	Subject Code	Name of subjects	Course Level	Credit	
		Major Papers			
1	AVE092M101	History of Animation and Multimedia	100	3	
2	AVE092M112	Fundamentals of Drawing for Animation	100	3	
Minor Papers					
3	AVE092N111	Color Theory & Abstract	100	3	
•		Interdisciplinary Course (IDC-1)			
4	IKS992I101	Introduction to Indian Knowledge System - I	100	3	
		Ability Enhancement Course (AEC-1)	1		
5	CEN982A101	CEN I: Introduction to Effective	100	1	
		Communication			
6	BHS982A102	Behavioural Science-I	100	1	
		Skill Enhancement Courses (SEC-1)			
7	AVE092S111	Characters & Illustration	100	3	
•	Value Added Course (VAC-1)				
8		Choose from the basket course	100	3	
		Total -		20	

2nd Semester

Sl. No.	Subject Code	Name of subjects	Course Level	Credit
		Major Papers		
1	AVE092M211	Concept Art and Digital Painting	100	3
2	AVE092M212	3D Modelling and Texturing	100	3
		Minor Papers		
3	AVE092N211	Graphic Design	100	3
		Interdisciplinary Course	·	
4	IKS992I201	Introduction to Indian Knowledge System - II	100	3
		Ability Enhancement Course (AEC-2)		
5	CEN982A201	CEN II: Approaches to Verbal and Non- Verbal Communication	100	1
6	BHS982A202	Behavioural Science -II	100	1
		Skill Enhancement Courses (SEC-2		
7	AVE092S211	Introduction to Cinematography	100	3
		Value Added Course (VAC-2)	·	
8		Choose from the basket course	100	3
		Total -		20

		3 rd Semester		
Sl. No.	Subject Code	Name of subjects	Course Level	Credit
		Major Core Papers		
1	AVE092M311	2D Animation	200	4
2	AVE092M312	3D Lighting and Rendering	200	4
	T	Minor Papers		
3	AVE092N311	Introduction to 3D	200	4
	T	Interdisciplinary Course		
4	AVE092I311	Motion Design	200	3
	1	Ability Enhancement Course (AEC-3)		
5	CEN982A301	CEN III – Fundamentals of Business Communication	200	1
6	BHS982A302	Behavioural Science-III	200	1
	T	Skill Enhancement Courses (SEC-3)		
7	AVE092S311	Introduction to Visual Effects	200	3
		Total -		20
	l	4 th Semester	L	
Sl.	Subject	Nome of subjects	Course	Cuadit
No.	Code	Name of subjects	Level	Credit
		Major Core Papers		
1	AVE092M411	2D Animation FX and Compositing	200	4
2	AVE092M412	Rigging & 3D Animation Techniques	200	4
3	AVE092M413	Introduction to Chitra Art with Mo-graph (IKS	200	4
		based)		
		Minor Papers		
4	AVE092N411	Basics of Video Editing	200	3
5	AVE092N412	Foundation of Visual Effects	200	3
	T	Ability Enhancement Course (AEC)		
7	CEN982A401	CEN IV: Business Communication: Concepts and Skills	200	1
8	BHS982A402	Behavioural Science-IV	200	1
		Total -		20
		5 th Semester		
Sl.	Subject		Course	
No.	Code	Name of subjects	Level	Credit
1	A \$75000 \$5514	Major Core Papers	200	4
1	AVE002M511	Compositing & CGI Integration	300	4
3	AVE002M512	Overview of Dynamics	300	4
3	AVE092M513	Rigging and 2D Animation Minor Papers	300	4
4	AVE092N511	Stop Motion	300	4
5	AVE092I\\(311\)	Internship	300	4
	11,120,21311	Total -	200	20

	6 th Semester					
Sl. No.	Subject Code	Name of Subjects	Course Level	Credit		
		Major Core Papers				
1	AVE092M611	Post-production for 2d Animation	300	4		
2	AVE092M612	Advanced 3D Dynamics	300	4		
3	AVE092M613	Procedural Animation and Compositing for Film	300	4		
4	AVE092M604	Film Appreciation & Analysis	300	4		
	Minor Papers					
5	AVE092N611	Pencil to Pixel	300	4		
		Total -		20		

		7 th Semester				
Sl. No.	Subject Code	Name of Subjects	Course Level	Credit		
	Major Core Papers					
1	AVE092M711	Concept for Game Design and Prototype	400	4		
2	AVE092M702	Research Methodology	400	4		
3	AVE092M713	Visual Effects Production	400	4		
4	AVE092M714	Overview of UI/UX	400	4		
		Minor Papers				
5	AVE092N711	Introduction to Architecture Modelling	400	4		
		Total -		20		
	.	8 th Semester				
Sl.	SubjectCode	Name of Subjects	Course	Credit		
No.			Level			
1	AVE092M801	Media Entrepreneurship	400	4		
		Minor Papers				
2	AVE092N811	Papercut Puppetry	400	4		
3	AVE092M812	Project Dissertation/Research Project	400	12		
		(Preferred Option)				
4	AVE092M813	Short Film for 2D Animation	400	4		
5	AVE092M814	3D Portfolio Development with Industry Pipeline	400	4		
6	AVE092M815	VFX – Portfolio Development	400	4		
		Total -		20		

Semester I			
Major Paper-1	History of Animation and Multimedia		
Subject Code AVE092M101			
Credit	3		
L-T-P-C	2-1-0-3		
Scheme of Evaluation	Theory		

<u>Course Objective</u>: New interpretations of contemporary ideas of animation based on an understanding of the history of animation.

Course Outcomes:

On successful completion of the course, the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Find the meaning, concept, and process of animation.	BT 1	
CO 2	Classify the characteristics of the different types of animation.	BT 2	
CO 3	Develop the principles of animation theories in Multimedia.	BT 3	
CO 4	Analyze the composition associated with the rise and evolution of animation.	BT 4	

Course Outlines:

Modules	Course Contents	Periods
I	History of Animation Influence of predecessors,1888–1909: Earliest animations on film, 1910s: From original artists to "assembly-line" production studios,1920s: Absolute film, synchronized sound and the rise of Disney,1930s: Color, depth, cartoon superstars and Snow White,1950s: Shift from classic theatrical cartoons to limited animation in TV series for children,2000s–2010s: traditional techniques overshadowed by computer animation.	15
п	History of Mean Methods of Animation Magic Lanterns and the zoetrope, Puppet Animation, Animated Series, Movies, History of comic and manga, Celluloid Animation, 2D Animation, 3D Animation, Motion Graphics, Stop Motion, cut-out animation.	15
Ш	History of Anime Origins of Anime (early 1900-1922), Pre-war productions (1923-1939), During the Second World War, Post-war environment, Toei Animation and Mushi Production	15
IV	Case Studies Study about Fantasmagoria; Art Books of Animated Movies; The Art of Aaron Blaise (Animal Study)	15
	Total	60

Text Books:

- Blaise, Aaron. (2021). The Art of Aaron Blaise. Vol.1. ISBN 1737328801.
- Eugene, Emile. & Courted, Jean Louis. (1908). Fantasmagorie. Movie

Reference Books:

- "Of Mice and Magic: A History of American Animated Cartoons" by *Leonard Maltin* (A detailed history of animation in America with insights into studios, techniques, and key figures.)
- "Animation: A World History" (3 Volumes) by Giacomo Miceli (A comprehensive series covering global animation history, styles, and evolution.)

Credit Distribution					
Theory/Tutorial	Practicum Exper			riential Learning	
60 hrs.	– 3hrs, presentat		rs), Presentation (preparation tion 40 min), Movie 40 min), Casestudies (6hrs		
Break up of Experiential learning					
Activity	Time required for preparation(hrs.)		required for ution (hrs.)	Total Time(hrs.)	
Two Workshop	NA	10hrs	S	10hrs	
Presentations after observing the workshop	3	40mi	in (20 min each)	3hrs 40min	
Movie Screening	NA	10hrs	S	10hrs	
Case studies	NA	6hrs	20min	6hrs 20min	
Total Hours 30				30	

Semester I			
Major Paper-2	Fundamentals of Drawing for Animation		
Subject Code AVE092M112			
Credit	3		
L-T-P-C	1-0-4-3		
Scheme of Evaluation	Practical		

<u>Course Objective:</u> To equip the students with the foundational concepts of art that will enable them to understand, draw different art styles, study human and animal anatomy.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Recall the basics of skeleton, muscle, proportion of animal and human anatomy to portray the art in the most compelling way.	BT 1	
CO 2	Demonstrate the understanding of shapes and forms, styles, andtraditions through familiarization with a wide range of design, styles, etc.	BT 2	
CO 3	Apply the knowledge of art to draw prospective drawing and human figures.	BT 3	
CO 4	Classify new interpretations of contemporary ideas of design based on the understanding of Principles of Designs and Elements of Shape.	BT 4	

Course Outlines:

Modules	Course Contents	Periods
	Fundamentals of Animation	15
	Principles of Designs and Elements of Shape, Shape Modification, Stick	
I	Figures, Gesture Drawing's Depth Study, Color Theory; Doubt Clearing	
	Assignments	
	Human and Animal's Anatomy Studies of Skeleton, Muscle, Proportion; Studies of Animal Skeleton,	15
II	Muscles, Proportion; Self Hand and Feet Drawing; Animal Family Study,	
	Head and Body Turn Around	
	Still life Using Perspectives	
III	Exterior, Interior, Angle Design by Applying Linear Perspective; Still life	15
	Drawing and Composition, Pencil, Black and White and Color, Rendering;	
	Doubt Clearing Assignments	
	Character Designing Using Basic Shapes	
IV	Introduction to Character Drawing with Basic Shape, Expression Sheet,	15
	Character Style Study, Pose Board, Character Concept Art, Manual,	
	Character Turn Around, Character Personality	
	TOTAL	
		60

Text Books:

- Drawing and Anatomy by Victor Perard (1928)
- Illusion of Life by Frank Thomas and Olli Johnston (1981)

Reference Books:

- "Figure Drawing for All It's Worth" by Andrew Loomis (Essential for understanding anatomy and proportion, foundational for animators.)
- "Force: Dynamic Life Drawing for Animators" by Michael D. Mattesi (Focuses on gesture, energy, and motion, which are crucial in animation drawing.)

Credit Distribution					
Lecture /Tutorial	Practicum E		Exp	periential Learning	
20hrs			30 hrs. Live Sketching (15hrs), Photography for inspirationboard / reference (5hrs), Projects and Portfolio (10).		
	Break up of Exp	erient	ial learning		
Activity	Time required for preparation (hrs.)		e required for ution (hrs.)	Total Time (hrs.)	
Live Sketching (human)	NA		15	15	
Photography for inspiration board / reference	NA		5	5	
Projects and Portfolio	NA		10	10	
To	tal Hours			30	

Semester I		
Minor Paper-1	Color Theory & Abstract	
Subject Code	AVE092N111	
Credit	3	
L-T-P-C	1-0-4-3	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> The objective of Color Theory & Abstract is to enable the students to develop the knowledge of color and its applications in different scenarios.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms	
		Taxonomy	
		Level	
CO 1	Define the application and uses of color	BT 1	
CO 2	Classify the color terminologies and theories	BT 2	
CO 3	Develop the different color schemes on compositions	BT 3	
CO 4	Analyze color psychology in real world scenarios	BT 4	

Course Outlines:

Modules	Course Contents	Periods
I	Abstract Optical illusion, Pencil rendering, Value, composition	15
II	Colour Wheel Colour wheel – Primary, Secondary and Tertiary Colours	15
III	Grey Scale Whites & Blacks, Hues, Tints, and Shades	15
IV	Colour Schemes Monochromatic, Warm, Cool, Complimentary, Split Complimentary, Analogous, Triadic Colour	15
	TOTAL	60

Textbooks:

- Interaction of Color by Josef Albers
- The Secret Lives of Color by Kassia St. Clair

Reference Books:

- The Color Bible: The definitive guide to color in art and design by Laura Perryman
 "Interaction of Color" by Josef Albers (A seminal work in color theory, perfect for deep understanding of color relationships.)

	Credit Distribution		
Lecture /Tutorial	Practicum Experiential Learning		
NA	60 hrs.	30 hrs. Extracurricular Activity (10hrs), Mood Board Creation (preparation – 3hrs, presentation 1hrs Nature Color Walk (1hrs on preparation, 4hrs presentation), Color Psychology Experiment (5hrs). Case studies (6hrs)	
В	reak up of Experie	ntial learning	
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time (hrs.)
Extracurricular Activity	NA	10 hrs	10 hrs
Mood Board Creation	3 hrs	1 hrs	4 hrs
Nature Color Walk	4 hrs	1 hrs	5 hrs
Color Psychology Experiment	NA	5 hrs	5 hrs
Case studies	Case studies NA		6 hrs
Tota	al Hours		30

Semester I	
Interdisciplinary Course (IDC-1)	Introduction to Indian Knowledge System - I
Subject Code	IKS992I101
Credit	3
L-T-P-C	2-1-0-3
Scheme of Evaluation	Theory (70%) + Continuous Evaluation (30%)

Credit Distribution (hours)		
L/T	P	EL
60	0	30

<u>Course objective:</u> This Foundation course is designed to present an overall introduction to all the streams of IKS relevant to the UG program. It would enable students to explore the most fundamental ideas that have shaped Indian Knowledge Traditions over the centuries.

Course Outcomes:

On completion of this course students will be able to –

CO	Course Outcomes	BT Level
Level		
CO1	Recall the rich heritage of Indian knowledge systems	BT level 1
CO2	Describe the contribution of Indian knowledge systems to the world	BT level 2
CO3	Demonstrate knowledge of sociocultural and ethnolinguistic diversity that constitutes the soul of Bharatvarsha	BT level 2
CO4	Apply traditional knowledge and techniques in day-to-day life	BT level 3
CO5	Distinguish knowledge traditions that originated in the Indian subcontinent	BT level 3

Module	Course Contents	Periods
I	Introduction to Indian Knowledge Systems (IKS):	
	-What is the Indian Knowledge System?	
	-Definition of Indigenous/ Traditional Knowledge	
	-Scope, and Importance of Traditional Knowledge.	
	Ancient India- Bharat Varsha:	
	-People of Ancient Bharat Varsha	
	-Our great natural heritage: The great Himalayas and the rivers.	
	- The civilizations of the Sindhu-Ganga valley, and the Brahmaputra valley.	
	-Our coastal plains.	
	-Our Nature: Forests and Minerals	15
	-Ancient Indian Traditional Knowledge and Wisdom about nature and climate.	
II	Indian Heritage of Knowledge:	
	-Ancient Indian Knowledge: The <i>Vedas</i> and its components-the	
	Vedangas	
	-Ancient Indian Books and treaties: The <i>Sastras</i> .	15
	-The Great Indian Epics: The Ramayana and The Mahabharata,	
	-Epics and religious treaties of ancient Assam: Introduction to Madhav Kandali's	
	Ramayan and Srimanta Sankardev's Dasam Skandha	
	Bhagavat of the Puranas.	
	-Ancient Traditional Knowledge-The Agamas	
	-The ancient Buddhist knowledge: <i>Tripitaka: Vinaya, Sutta</i> and	
	Abhidhamma Pitaka	
	Languages and language studies in India:	
	-What is linguistics?	
	-Script and Language	
	-Alphabet of the Indian languages <i>Varnamala</i> : Origin, Evolution, and phonetic	
	features.	
	-Languages of India	
	-Important texts of Indian languages: Skills Siksha,	
	Expression/Prounciation- <i>Nirukta</i> , Grammer- <i>Vyakarana</i> , Poetic rhythm- <i>Chandas</i> Paninian Grammar: A Brief Introduction	
	Introduction to Fine Arts and Performing Arts of India:	
	-Ancient Indian classical music and dance forms: The Science of Dramas-	
	Natyasastra and the Science of Music-Gandharva-Veda.	
	-Aesthetics in Indian Art and Culture.	
	-Folk music and traditional dance forms of the Northeast.	
III	Indian Science & Technology	15
	-Ancient India's contribution to Mathematics- Number System.	
	Algebra and Arithmetic, Geometry and Trigonometry.	
	-Origin of Decimal system in India; nomenclature of numbers in the	
	Vedas. Zero and Infinity. Sulba-sutras. Contribution of Brahmagupta and Sridhar	
	Acharya to Mathematics. Important texts of Indian mathematics.	
	• Indian Astronomy: Planetary System. Motion of the Planets. Velocity of	
	Light. Eclipse. Astronomy. Navagrahas. Important works in Indian	
	Astronomy. Aryabhata and Nilakantha:	
	Contribution to Astronomical Studies	
	• Indian Metal Works: Mining Techniques. Types of Metals. Tools &	

	Techniques for Metal Smelting with examples.	
	Metalworks in pre-modern India: Special reference to NE India.	
IV	Contribution of Ancient India to Health Sciences:	15
	-Traditional Indigenous systems of medicines in India:	
	Ayurveda and Yoga: Elements of Ayurveda: Gunas and Doshas, Pancha Mahabhuta	
	and Sapta-dhatu.	
	-Concept of disease in Ayurveda	
	-Ayurvedic lifestyle practices: <i>Dinacharya</i> and <i>Ritucharya</i> .	
	-Important Ayurvedic Texts	
	-Hospitals in Ancient India	
	-Ayurveda: Gift of India to the modern world.	
EL	The experiential learning sessions may include:	30
	Field Visits: Organizing visits to historical sites, museums, traditional craft	
	centers, and other places relevant to Indian knowledge systems.	
	Interactive Sessions: Engaging students in discussions with experts and	
	practitioners in various fields of Indian knowledge systems to gain insights and practical knowledge.	
	Online Lecture Series: Providing the students with online lectures by	
	distinguished experts in the field of the Indian Knowledge System.	
	Hands-on Activities: Providing opportunities for students to	
	participate in activities related to traditional arts, crafts, music, dance,	
	agriculture, etc., to understand the practical aspects of Indian knowledge	
	systems.	
	Practical Demonstrations: Conducting workshops or sessions to demonstrate traditional	
	practices, such as yoga, Ayurveda, Vastu Shastra, etc., for the students.	
	Total	90

Textbooks:

• Mahadevan, B., Bhat Vinayak Rajat, Nagendra Pavan RN. (2022), *Introduction to Indian Knowledge System: Concepts and Applications*. PHI Learning Private

	Semester I	
AEC-1	CEN I: Introduction to Effective Communication	
Subject Code	CEN982A101	
Credit	1	
L-T-P-C	1-0-0-1	
Scheme of Evaluation Theory and Practical		

<u>Course Objective:</u> To understand the four major aspects of communication by closely examining the processes and outlining the most effective ways to communicate with interactive activities.

Course Outcomes: On successful completion of the course the students will be able to

CO Level	Course Outcomes	Blooms
		Taxonomy Level
	List the elements and processes that make for successful communication and recognize everyday activities that deserve closer	BT 1
	attention to improve communication skills	
	Contrast situations that create barriers to effective communication and relate them to methods that are consciously devised to overcome such hindrance	BT 2
	Apply language, gestures, and paralanguage effectively to avoid miscommunication and articulate one's thoughts and build arguments more effectively	BT 3

Course Outlines:

Course Contents		
Units	Course Contents	Periods
	Introduction to Effective Communication	
	Listening Skills	
I	 The Art of Listening 	5
_	 Factors that affect Listening 	
	 Characteristics of Effective Listening 	
	 Guidelines for improving Listening skills 	
	Speaking Skills	
	 The Art of Speaking 	_
II	 Styles of Speaking 	5
	 Guidelines for improving Speaking skills 	
	 Oral Communication: importance, guidelines, and 	
	barriers	

	Reading Skills	
Ш	 The Art of Reading 	5
	 Styles of Reading: skimming, surveying, scanning 	_
	 Guidelines for developing Reading skills 	
	Writing Skills	
IV	 The Art of Writing 	5
	 Purpose and Clarity in Writing 	
	 Principles of Effective Writing 	

Textbooks:

- 1. Rizvi, M. Ashraf. (2017). Effective Technical Communication. McGraw-Hill.
- 2. Chaturvedi, P. D. and Chaturvedi, Mukesh. (2014). Business Communication. Pearson.
- 3. Raman, Meenakshi and Sharma, Sangeeta. (2011). *Technical Communication: Principles and Practice* (2nd Edition): Oxford University Press.

Credit Distribution		
Lecture/Tutorial Practicum Ex		Experiential Learning
15 hours	-	10 hours - Movie/ Documentary /Podcasts screening - Peer teaching

	Semester I	
AEC-2	Behavioural Science -1	
Subject Code	BHS982A102	
Credit	1	
L-T-P-C	1-0-0-1	
Scheme of Evaluation	Theory	

<u>Course objective:</u> To increase one's ability to draw conclusions and develop inferences about attitudes and behaviour, when confronted with different situations that are common in modern organizations.

Course Outcomes: On completion of the course the students will be able to:

CO1: Understand self & process of self-exploration

CO2: Learn about strategies for the development of healthy self-esteem

CO3: **Apply** the concepts to build emotional competencies.

Course Outlines:

Modules	Course Contents	Periods
	Introduction to Behavioral Science	
_	Definition and need of Behavioral Science, Self: Definition components,	
1	Importance of knowing self, Identity Crisis, Gender and Identity, Peer	_
	Pressure, Self-image: Self Esteem, Johari Window, Erikson's model.	4
	Foundations of individual behavior	
	Personality- structure, determinants, types of personalities. Perception:	
	Attribution, Errors in perception.	4
II	Learning- Theories of learning: Classical, Operant and Social	4
	Behaviour and communication.	
	Defining Communication, types of communication, barriers to	
TTT	communication, ways to overcome barriers to Communication, Importance of	
III	Non-Verbal Communication/Kinesics, Understanding Kinesics, Relation	4
	between behaviour and communication.	
	Time and Stress Management	
	Time management: Introduction-the 80:20, sense of time management,	
IV	Secrets of time management, Effective scheduling.	
	Stress management: effects of stress, kinds of stress-sources of stress, Coping	4
	Mechanisms. Relation between Time and Stress.	•
	Total	16

Textbooks

- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 3, Management; Pfeiffer & Company
- Blair J. Kolasa, Introduction to Behavioural Science for Business, John Wiley & Sons Inc

Semester I		
Skill Enhancement Courses -1 Characters & Illustration		
Subject Code	AVE092S111	
Credit	3	
L-T-P-C	1-0-4-3	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> A personal illustration style and technique that uses both traditional and digital skills and incorporates acquired knowledge, experience, judgement, and unique aesthetic vision.

Course Outcomes:

On successful completion of the course the students will be able to:		
CO	Course Outcomes	Bloom's
Level		Taxonomy Level
CO 1	Define a character's traits, personality, backstory according to the	BT 1
	story	
CO 2	Relate different styles through which students can	BT 2
	sketchdifferent themes or character design props.	
CO 3	Build the different techniques in illustration.	BT 3
CO 4	Analyze themes of different conceptual art of animation	BT 4

Course Outlines:

Modules	Course Contents	Periods
I	Art Fundamentals the Basic Structure of Art and Drawing, Breaking	15
	Downthe Structure, Skill vs. Emotion in Drawing, The Importance of	
	Story in Drawing, Drawing Art Studies vs Drawing Art Creation	
	Drawing Imaginative Art	
II	Character forms and proportion	15
	Studies of Skeleton, Muscle, Proportion; Studies of Animal Skeleton,	
	Muscles, Proportion; Self Hand and Feet Drawing; Animal Family	
	Study, Head and Body Turn Around; Understanding the Form and	
	Volume; Doubt Clearing Assignments	
III	Hair cloth Dynamics	15
	Fundamental of drawing hair, Basic Components of drawing hair,	
	drawing basic hair shapes, drawing clothing and cloth dynamics	
IV	Character post- production	15
	Creating Clean Lines and Line Art for Finishing Drawings Creating	
	Rough Clean Lines and Line Art for Finishing DrawingsCharacter Page	
	Composition when Drawing Characters, Story board, Pose board,	
	Inspiration board, Expression sheet	
_	TOTAL	60

Textbooks:

- Creating Stylized Characters by Marisa Lewis
- The Silver Way: Techniques, Tips, and Tutorials by Stephen Silver

Reference Books:

- "Character Design from the Ground Up" by Kevin Crossley (Practical and creative advice on creating compelling characters with abstract or stylized features.)
- "Creating Characters with Personality" by Tom Bancroft (former Disney animator)
 (A practical guide that walks you through developing unique, animated characters from idea to final design.
 Includes interviews with top industry artists.)

	Credit Distribution				
Lecture /Tutorial	Practicum		Exp	Experiential Learning	
20 hrs.		40 hrs.	30 hrs.	30 hrs.	
		Conceptual Sketching (10hrs).		etching (10hrs), Project and	
			Portfolio (15hrs	Portfolio (15hrs), Photography for	
	inspiration boa		rd / reference (2hrs), Case		
studies (3hrs)					
	Break up of Experiential learning				
Activity		Time required for	Time required for	Total Time(hrs.)	
		preparation(hrs.)	execution (hrs.)		
Conceptual Sketching basedtrends		NA	10	10	
Project and Portfolio basedtrends		NA	15	15	
Photography for inspirationboard /		NA	2	2	
reference					
Case studies		NA	3	3	
Total Hours				30	

Semester II			
Major Course -1	Concept Art and Digital Painting		
Subject Code	AVE092M211		
Credit	3		
L-T-P-C	1-0-4-3		
Scheme of Evaluation	Practical		

Course Objective:

To define the concepts, techniques, principles and practices in Advertising and Public Relations to classify the mysteries of media marketing, positioning, market segmentation and targeting in advertising as well as the significance of media in globalization.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO	Course Outcomes	Blooms Taxonomy	
Level		Level	
CO 1	How a rough concept of branding, art style, character's traits, personality, props according to the script and use that information as	BT 1	
	a guide for creating the visuals		
CO 2	Interpret the different styles, sketch different themes, cartoons, design, props and environment.	BT 2	
CO 3	Construct the themes of different conceptual art and design	BT 3	
CO 4	Analyze conceptual art and design using various tricks and technique	BT 4	

Course Outlines:

Modules	Course Contents	Periods
I	Workspace and Tools	15
	Introduction to User Interfaces, Basic Setting, Text, Layer	
	Management, Tools	
ΙΙ	Masking and Filters	15
	Masking and Filters	
III	Digital Painting and Matte Painting	15
	Still life Painting, how light falls on form, Dynamic light and	
	shadow, Photo basing, digital painting technique and tips,	
	Illustration, Manipulation,	
IV	Master Layout Design and Background	15
	Master Layout Design, Rough Final layout(beats), Layout and	
	Colouring	

Textbooks:

- Bold Visions: A Digital Painting Bible
- Digital Painting Techniques: Practical Techniques of Digital Art Masters" by 3D Total

Reference Books:

- The Skillful Huntsman: Visual Development of a Grimm Tale" by: Scott Robertson, Design Studio Press
 - (Use: A brilliant breakdown of the entire concept art process—from thumbnail to character/environment design.)
- "Art Fundamentals: Theory and Practice" by: 3dtotal Publishing (Use: Covers composition, color theory, anatomy, and light—core to visual storytelling in concept art.)

	Credit Distribution			
Lecture /Tutorial	Practicum Exper		riential Learning	
	60 hrs.	30 hrs.	30 hrs.	
	Photography for in		*	
			zationtechnique (6hrs),	
	Project and Portfolio (15hrs), Concep		· / / ·	
	Sketching (6hrs), Case studies(3hrs)			
Break up of Experiential learning				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
Photography for inspiration board /	NA	6	6	
reference/visualizationtechnique				
Project and Portfolio	NA	15	15	
Conceptual Sketching	NA	6	6	
Case studies	NA	3	3	
Total Hours			30	

Semester II		
Major Course -II	3D Modelling and Texturing	
Subject Code	AVE092M212	
Credit	3	
L-T-P-C	1-0-4-3	
Scheme of Evaluation	Practical	

<u>Course Objective</u>: This course would likely enhance the students' abilities in both the technical aspects of 3D modeling and the creative aspects of design and texturing, allowing them to produce high-quality, visually appealing models for a variety of digital applications.

Course Outcomes:

	On successful completion of the course the students will be able to:		
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Finding the object's shape, texture, and appearance using polygons, curves, and other geometric primitives.	BT 1	
CO 2	Explain 3D model to view from any angle and use for a variety ofpurposes, such as visualization, animation, prototyping, etc.	BT 2	
CO 3	Apply the knowledge of shapes and forms to model a character, object, and environment.	BT 3	
CO 4	Analyze new interpretations of contemporary ideas of 3d texturing	BT 4	

Modules	Course Contents	Periods
I	Modelling: Introduction; Hardware/Software; Pipeline Demonstration;	
	3d Interface; Low Poly Modelling; Export/Import; Collision	15
II	Surfacing: High Poly Modelling; Normal Bake; Masking Height;	15
	Bake Other Maps; Substance Painter Materials; Export; Photoshop	
III	Modularity: Wall Set-Model; Modularity: Wall Set-Unwrap.	15
	Modularity: Wall Set - Height & Normal; Modularity: Wall Set -	
	Materials, Modularity: Wall Set - Export & Import to Unity;	
	Modularity: Wall Set – Unity Prefabs; Modularity: Wall Set - Level	
	Layout	
IV	Terrain: Foliage: Palm Tree (model/unwrap), Foliage: Palm Tree,	15
	Terrain: SculptingHeight, Terrain: Adding Textures, Terrain: Adding	
	Trees & Decorations. Terrain: Polish	
	TOTAL	60

- Vaughan, William. (2011). Digital Modeling. Edition 1, ISBN 978-0321700896, New RidersPub
- Legaspi, Chris. (2015). Anatomy for 3D Artists: The Essential Guide for CG Professionals.3dtotal Publishing

- Digital Modeling" by William Vaughan, Published by New Riders
- Introducing Autodesk Maya" by Dariush Derakhshani (Good for understanding 3D modeling, rigging, and texturing inside Maya)

	Credit Distribution		
Lecture /Tutorial	Practicum Experiential L		Experiential Learning
	60 hrs. Visualization technique (6hrs), Project and Portfolio (15hrs), Conceptual Sketching (6hrs), Case studies(3hrs)		
	Break up of Ex	xperiential learning	
Activity	-	Time required for execution (hrs.)	Total Time(hrs.)
Visualizationtechnique	NA	6	6
Project and Portfolio	NA	15	15
Shape Exploration Jam	NA	6	6
Iterative Design Showcase	NA	3	3
T	otal Hours	·	30

Semester II	
Minor Course -I	Graphic Design
Subject Code	AVE092N211
Credit	3
L-T-P-C	1-0-4-3
Scheme of Evaluation	Practical

<u>Course Objective</u>: To refine the techniques, principles, and practices in Branding to classify the mysteries of media marketing, positioning, market segmentation and targeting in advertising as well as the significance of media in globalization.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO	Course Outcome	Blooms Taxonomy Level	
Level			
CO 1	Choose different designs and themes	BT 1	
CO 2	Illustrate the Graphic in different types of Branding.	BT 2	
CO 3	Apply ranges of images using different design techniques.	BT 3	
CO 4	Analyze the visual research and development skills through	BT 4	
	the creation of a Brand Development Guide		

Modules	Course Contents	Periods
I	Fundamentals of Graphic Design	
	Introduction to interface of software, Implement the fundamentals of	15
	color, visual, rhythm, and pattern in design. Use scale, weight,	
	direction, texture, and space in a compositionTypeset text and	
	experiment with letter forms Create your own series of images using	
	different image makingtechniques	
II	Typography	
	Review the terminology and measuring system used to describe type	15
	Explore how typefaces tell stories and understand the historic evolution	
	Conduct a peer-reviewed typesetting exerciseDesign of a full-scale	
	typographic poster	
III	Image Making	
	Make informed design choices using image-based research Create	15
	ranges of representation using images Compose spreads for Books	
	Design a Books with your own images.	
IV	Branding	15
	Synthesize typography, image making, composition and systematic	
	thinking skills through ideation, invention, and conceptualization.	
	Demonstrate visual research and development skills through the	
	creation of a Brand Development Guide	
	Expand a brand identity's palette through the inclusion of graphicmarks	
	or icons, color, secondary typefaces, and/or images	
	TOTAL	60

- Grid Systems in Graphic Design, by Josef Müller-Brockman
- Paula Scher: Works, by Tony Brook & Adrian Shaughnessy

- "Adobe Illustrator Classroom in a Books" (Latest Edition) by Brian Wood (Adobe Press)
- "Adobe Illustrator WOW! Books" by author: Sharon Steuer

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs., 3x30=90			
Lecture /Tutorial	Practicum	Practicum Experiential Learning	
20hrs	40 hrs.	30 hrs.	
		Project and Portfolio (15hrs), Poster Designin	
		Challenge (5hrs),	Photography for inspiration
		board / reference	(5hrs), Casestudies (5hrs)
Break up of Experiential learning			
Activity	Time required	Time required	Total Time(hrs.)
	for preparation	forexecution	
	(hrs.)	(hrs.)	
Project and Portfolio basedtrends	NA	15	15
Poster Designing Challenge	NA	5	5
Photography for inspirationboard /	NA	5	5
reference			
Case studies	NA	5	5
Tot	Total Hours		

	Semester II	
Interdisciplinary Course	Introduction to Indian Knowledge System - II	
Subject Code	IKS992I201	
Credit	3	
L-T-P-C	2-1-0-3	
Scheme of Evaluation	Theory (70%) + Continuous Evaluation (30%)	

Credit Distribution (hours)				
L/T	P	EL		
60 0 30				

Course objective:

This Foundation course is designed to present an overall introduction to all the streams of IKS relevant to the UG program. It would enable students to explore the most fundamental ideas that have shaped Indian Knowledge Traditions over the centuries.

Course Outcomes:

On completion of this course, students will be expected to –

CO	Course Outcomes	BT Level
Level		
CO1	Recall traditional Indian knowledge traditions constituting Indian culture	BT level 1
CO2	Summarize differences between classical literature in Sanskrit and other Indian languages	BT level 2
CO3	Compare knowledge traditions originating in NE India	BT level 2
CO4	Appreciate the contribution of Indian Knowledge Systems to the world	BT level 3

Module	Course Contents	Periods
_	Indian Classical Literature	
I	Indian Classical Literature: A Brief Introduction.	15
	Ancient Indian Spiritual Poetics-Kavya: Contribution of Kalidasa	
	Diversity and Indian Culture:	
	Diversity and Indian Culture	
	-Indigenous Faith and Religion	
	-Preservation of culture and indigenous knowledge	
	The Purpose of Knowledge	
	Understanding Self-Awareness and Spirituality.	
	-Indian concept and purpose of Knowledge and Education	
	Understanding Spirituality and Materialism: Para and Apara Vidya	

II	Methodology of Indian Knowledge System:	15
	- Shruti and Smriti traditions.	
	Introduction to Shastras.	
	Manuscriptology: The art and science of documenting knowledge.	
	- Repositories of ancient manuscripts with special reference to the Northeast India.	
	Indian Architecture and Town Planning:	
	- Introduction ancient Indian architecture.	
	- Sthapatya-Veda: An Introduction	
	- Indigenous tools & techniques for town planning & Temple Architecture. Lothal, Mohan Jo Daro.	
	- Temple Art: Lepakshi Temple, Jagannath Puri Temple, Konark Sun Temple.	
	- Vernacular architecture of Assam: Special reference to Brahmaputra Valley	
III	Indian Agriculture:	15
	- Agriculture: Significance in Human Civilization.	
	- Sustainable Agriculture.	
	- Historical significance of agriculture and sustainable farming in India.	
	- Step Cultivation of India: Special reference to Northeast India.	
	- Wet rice cultivation of Assam.	
	Indian Textiles:	
	What is Textile? - Tradition of cotton and silk textiles in India.	
	 The historical contribution of textile and weaving to the Indian economy. Varieties of textiles and dyes developed in different regions of India with special reference to Northeast India 	

IV	Indian Polity and Economy:	15
	Understanding Kingdom and Chiefdom	
	Role of a king	
	The Indian idea of a well-organized polity and flourishing economy.	
	• The <i>Chakravarti</i> System: Administrative System of Ancient <i>Bharatvarsha</i> .	
	Village administrative system: Northeast India.	
	Arthashastra: Brief synopsis	
	The outreach of Indian Knowledge System across Geographical Boundaries	
	Indian Languages.	
	• Scripts.	
	• Linguistics.	
	Ayurveda.	
	Yoga and Meditation.	
	Textile	
	Decimal value place system-based arithmetic, Algebra and Astronomy	
EL	The experiential learning sessions may include:	30
	Field Visits: Organizing visits to historical sites, museums,	
	traditional craft centers, and other places relevant to Indian knowledge	
	systems.	
	• Interactive Sessions: Engaging students in discussions with experts and	
	practitioners in various fields of Indian knowledge systems to gain	
	insights and practical knowledge.	
	 Online Lecture Series: Providing the students with online lectures by distinguished experts in the field of the Indian Knowledge System. 	
	 Hands-on Activities: Providing opportunities for students to participate in activities related to traditional arts, crafts, music, dance, 	
	• participate in activities related to traditional arts, crafts, music, dance, agriculture, etc., to understand the practical aspects of Indian knowledge	
	systems.	
	Systems.	
	Practical Demonstrations: Conducting workshops or sessions to demonstrate	
	traditional practices, such as yoga, Ayurveda, Vastu Shastra, etc., for the	
	students.	
	Total	90

Textbooks Books:

- 1. Mahadevan, B., Bhat Vinayak Rajat, Nagendra Pavan RN. (2022), *Introduction to Indian Knowledge System: Concepts and Applications*. PHI Learning Private Ltd.
- 2. Mukul Chandra Bora, *Foundations of Bharatiya Knowledge System*. Khanna Books Publishing

- 1. Baladev Upadhyaya, Samskrta Śāstrom ka Itihās, Chowkhambha, Varanasi, 2010.
- 2. D. M. Bose, S. N. Sen and B. V. Subbarayappa, Eds., *A Concise History of Science in India*, 2nd Ed., Universities Press, Hyderabad, 2010.
- 3. Astāngahrdaya, Vol. I, *Sūtrasthāna and Śarīrasthāna*, Translated by K. R. Srikantha Murthy, Vol. I, Krishnadas Academy, Varanasi, 1991.
- 4. Dharampal, *The Beautiful Tree: Indian Indigenous Education in the Eighteenth Century*, Dharampal Classics Series, Rashtrotthana Sahitya, Bengaluru, 2021.
- 5. J. K. Bajaj and M. D. Srinivas, *Indian Economy and Polity in Eighteenth century Chengalpattu*, in J. K. Bajaj ed., Indian Economy and Polity, Centre for Policy Studies, Chennai, 1995, pp. 63-84.

Semester II		
AEC-1 Approaches to Verbal and Non-Verbal Communication		
Subject Code CEN982A201		
Credit 1		
L-T-P-C 1-0-0-1		
Scheme of Evaluation	Theory and Practical	

<u>Course Objective</u> To introduce the students to the various forms of technical communication and enhance their knowledge in the application of both verbal and non-verbal skills in communicative processes.

Course Outcomes

On successful completion of the course the students will be able to:			
CO	Course Outcomes	Blooms	
Level		Taxonomy Level	
CO 1	List the different types of technical communication, their characteristics, their advantages and disadvantages.	BT 1	
CO 2	Explain the barriers to communication and ways to overcome them.	BT 2	
CO 3	Identify the means to enhance conversation skills.	BT 3	
CO 4	Determine the different types of non-verbal communication and their significance.	BT 4	

Course Outlines:

Modules	Topics (if applicable) & Course Contents	Periods
	Technology Enabled Communication	
	Communicating about technical or specialized topics, Different forms of technology-	
I	enabled communication tools used in organizations Telephone, Teleconferencing, Fax,	4
	Email, Instant messaging, Blog, Podcast, Videos, videoconferencing, social media	-
	Communication Barrier Types of barriers: Semantic, Psychological, Organisational,	
	Cultural, Physiological, Methods to overcome barriers to communication.	
II		4
	Conversation skills/Verbal Communication Conversation – Types of Conversation,	
	Strategies for Effectiveness, Conversation Practice, Persuasive Functions in Conversation,	
III	Telephonic Conversation and Etiquette Dialogue Writing, Conversation Control.	4
	Non-verbal Communication Body language- Personal Appearance, Postures, Gestures,	
	Eye Contact, Facial expressions Paralinguistic Features-Rate, Pause, Volume,	
IV	Pitch/Intonation/ Voice/Modulation, Proxemics, Haptics, Artifacts, Chronemics,	4
	Total	16

Textbooks:

- 1. Rizvi, M. Ashraf. (2017). Effective Technical Communication. McGraw-Hill.
- 2. Chaturvedi, P. D. and Chaturvedi, Mukesh. (2014). Business Communication. Pearson.
- 3. Raman, Meenakshi and Sharma, Sangeeta. (2011). *Technical Communication: Principles and Practice* (2nd Edition): Oxford University Press.

Semester II		
AEC-2	Behavioural Science -II	
Subject Code BHS982A202		
Credit	1	
L-T-P-C	1-0-0-1	
Scheme of Evaluation	Theory	

<u>Course objective</u>: To increase one's ability to draw conclusions and develop inferences about attitudes and behaviour, when confronted with different situations that are common in modern organizations.

Course outcomes: On completion of the course the students will be able to:

CO 1: Develop an elementary level of understanding of culture and its implications on personality of people.

BT 1

CO2: Understand the concept of leadership spirit and to know its impact on performance of employees.

BT 2

BT 3

CO3: Understand and **apply** the concept of Motivation in real life.

Modules	Course Contents	Periods
I	Culture and Personality Culture: Definition, Effect, relation with Personality, Cultural Iceberg, Overview of Hofstede's Framework, Discussion of the four dimensions of Hofstede's Framework.	4
П	Attitudes and Values Attitude's definition: changing our own attitudes, Process of cognitive dissonance Types of Values, Value conflicts, Merging personal and Organisational values	4
Ш	Motivation Definition of motivation with example, Theories of Motivation (Maslow, McClelland's theory & Theory X and Y)	4
IV	Leadership Definition of leadership, Leadership continuum, types of leadership, Importance of Leadership, New age leaderships: Transformational & transactional Leadership, Leaders as role models.	4
	Total	16

Textbooks:

- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 3, Management; Pfeiffer & Company
- Blair J. Kolasa, Introduction to Behavioural Science for Business, John Wiley & Sons Inc.
- Organizational Behaviour by Kavita Singh (Vikas publishers, 3rd Edition).

Semester II			
Skill Enhancement Course II Introduction to Cinematography			
Subject Code	AVE092S211		
Credit	3		
L-T-P-C	1-0-4-3		
Scheme of Evaluation	Practical		

<u>Course Objective:</u> This course aims to provide a comprehensive understanding of the fundamental principles of filmmaking, with a focus on the use of cameras, lighting, scripting, character design, and storyboarding. It will empower students to harness these concepts to produce high-quality audio-visual content by the end of this course.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms	
		Taxonomy Level	
	Find the basics of the camera, it is working, and its functions and	BT 1	
	distinguish between various camera body parts, different shot sizes and		
	various camera setups. Visualize the Rule of Thirds for better		
	composition.		
CO 2	Relate the fundamentals of lighting that affects the visual mood and	BT 2	
	atmosphere of a scene. It also helps with better storytelling, shaping		
	character experience and enhancing the cinematic lighting techniques.		
CO 3	Construct a script, design characters and story boarding.	BT 3	
GO 4	Apply the knowledge of camera, lighting, scripting, designing characters	BT 4	
	and story boarding to explore the new dimensions of audio video editing		
	and to generate a final product.		

Modules	Course Contents	Periods
I	Fundamentals of Camera: Basics of Camera, its functions, Single camera and multi-camera setup, accessories, composition, Rule of thirds, different types of shots.	15
II	Fundamentals of Lighting: Importance of lighting, 3 point Lighting, 5-point Lighting, Silhouette,	15
III	Scripting: Scripting writing, Character designing, Storyboarding, Animatic,	15
IV	Editing: Understanding interface and editing concept, uses of transition, effects and tools, audio integration, Exporting final output.	15
	TOTAL	60

- Brown, Blain; Cinematography: Theory and Practice, Second Edition: Image Making for Cinematographers and Directors; Focal Press, 2011.
- Katz, D Steven; Film Directing Shot by Shot: Visualizing from Concept to Screen; MichaelWiese

- "Cinematography: Theory and Practice" by author: Blain Brown
- "Film Directing Shot by Shot: Visualizing from Concept to Screen" by Steven D. Katz

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs., 3x30=90				
Lecture /Tutorial Practicum Experiential Learning				
20hrs	40 hrs.	30 hrs.		
		Project (5hrs), Study tour(5hrs), shooting (15hrs),		
	Interaction with industry expert (5)			

Break up of Experiential learning					
Activity Time required for Time required for preparation(hrs.) execution (hrs.)					
Project	NA	5	5		
Study Tour	NA	4	5		
Shooting	NA	20	15		
Interaction with industry expert	NA	1	5		
	<u> </u>	Total Hours	30		

Semester III		
Major Course -I	2D Animation	
Subject Code	AVE092M311	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective</u>: This course introduces the fundamentals of 2D animation, focusing on storyboards, animatics, and key principles like color, shape, biomechanics, and fluidity. Students will learn to create animated sequences that convey clear narratives with visual consistency.

Course Outcomes:

On successful completion of the course the students will be able to:		
CO	Course Outcomes	Blooms
Level		Taxonomy Level
CO 1	Relate storyboard and animatic sequence and overall flow of the story and	BT 1
	whether the images effectively convey the intended narrative.	
CO 2	Illustrate animatic sequence 2-dimensional images drawing or creating	BT 2
	each individual frame of the animation by hand or using digital software	
CO 3	Apply the knowledge of color, shapes, and forms to retain mood the mass	BT 3
	of subject to create smooth sequence.	
CO 4	Analyze the knowledge of Bio-Mechanics and animated sequence	BT 4

Modules	Course Contents	Periods
I	2D Digital Animation: Interface, Timeline, Properties and Library,	15
	Character Tracing, Sack animation, Ball animation and 12 principles of	
	animation	
II	Bio-Mechanics / Organic Animation (Digital): Head Turn, Walk, Jump	15
	(all view), Run Cycle, Walk-Run-Stop, Character balance, Lip chart	
III	Biomechanics of 2d Animation: Fighting Scene, turn around, secondary	15
	animation, follow through animation. In depth study on Time and space	
IV	Animatic: Video reel with dialogue and Time	15
	TOTAL	60

- Williams, Richard. (2001). The Animator's Survival Kit
- Timing for Animation, 40th Anniversary Edition (greyscale)

- "Animation 1: Learn to Animate Cartoons Step by Step" by author: Preston Blair
- "The Illusion of Life: Disney Animation" by author Frank Thomas & Ollie Johnsto

	Credit Distribution			
Lecture /Tutorial	Practicum	Exper	Experiential Learning	
	60 hrs.	30 hrs.	30 hrs.	
		Inspiration board	/ reference/visualization	
		technique (6hrs),	Project and Portfolio	
		` //	ual Sketching (6hrs), Case	
		studies (3hrs)		
Break up of Experiential learning			g	
A divides Time asserting I for Time asserting I for Trial Time (I me)				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
inspiration board /	NA	6	6	
reference/visualizationtechnique				
Project and Portfolio	NA 15 15			
Conceptual Sketching	NA	6	6	
Case studies	NA	3	3	
Tota	al Hours		30	

Semester III		
Major Course -I	3D Lighting and Rendering	
Subject Code AVE092M312		
Credit	4	
L-T-P-C	0-0-8-4	
Scheme of Evaluation	Practical	

<u>Course Objective</u>: Students will have a strong grasp of natural light properties, lighting nodes, and various rendering engines, as well as the skills to produce high-quality rendered images and walkthroughs. Students will also complete a final project to demonstrate their technical and creative abilities in 3D lighting and rendering.

Course Outcomes:

On successful completion of the course the students will be able to:		
CO	Course Outcomes	Blooms Taxonomy
Level		Level
CO 1	Recall Key Concepts of Natural Light and basic lighting tools and whether	BT 1
	the images effectively convey the intended narrative.	
CO 2	Explain light node with the attributes	BT 2
CO 3	Apply the features of different render engines by optimizing render	BT 3
	settings for efficiency and quality	
CO 4	Analyze new scenes by rendering them in different types of lights.	BT 4

Modules	Course Contents	Periods
I	3D lighting – 1: Introduction to nature light and its properties, basic	15
	lights of the software.	
II	3D lighting – 2: Light nodes and its attributes.	15
III	Rendering: Arnold Engine, V-ray Engine, Corona Rendering, /	15
	Render-man Engine by Pixar Studios, Cycle render	
IV	Project : Students will have to individually submit rendered	15
	images/walkthrough submit in a storage device. Teachers will supervise	
	the projects.	
	TOTAL	60

- (2000). Digital Lighting and Rendering by Birn Jeremy.
- Lighting for Animation: The Art of Visual Storytelling" by Jeanette Barnes

- "Digital Lighting and Rendering" by Jeremy Birn
- "Lighting for Animation: The Art of Visual Storytelling" by Jasmine Katatikarn & Michael Tanzillo (Blue Sky Studios)

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs., 3x30=90)					
Lecture /Tutorial	Practicum		Experiential Learning		
	<u> </u>		Conceptual Prot	totype (10hrs), Project and (5), (3hrs), Case studies (5hrs)	
	Break un o	f Exr	periential learnin		
Activity	Time required	_	ne required for	Total Time (hrs.)	
	for preparation	exe	cution (hrs.)		
	(hrs.)				
Conceptual Prototype	NA	8		12	
Project and Portfolio based	NA	10		20	
on trends					
Case studies	NA	5		5	
Total Hours 30					

Semester III		
Minor Course -I	Introduction to 3D	
Subject Code	AVE092N311	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective</u>: This course builds foundational 3D modeling skills using basic shapes, texturing, and lighting techniques. Students will create and render models for applications in gaming, animation, and storytelling, developing the ability to visualize and present 3D concepts effectively.

Course Outcomes:

On succes	On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms		
		TaxonomyLevel		
CO 1	Define the object's shape, texture, and appearance using basic primitives.	BT 1		
CO 2	Relate texturing for a variety of purposes, such as gaming props,	BT 2		
	animation etc.			
CO 3	Apply the knowledge of lights to light a subject & object.	BT 3		
CO 4	Analyze new ideas by rendering different subjects & object.	BT 4		

Modules	Course Contents	Periods
I	Modelling: Introduction; Hardware/Software; Pipeline Demonstration; 3d	15
	Interface;Low Poly Modelling; Export/Import;	
II	Texturing: UV Unwrapping, Nodes, baking texturing maps	15
III	Lighting: One-, Two- and Three-point lighting, Studio lighting, using HDRI Maps for Lighting.	15
IV	Rendering: Render the object & subject using different renderer.	15
	TOTAL	60

- Vaughan, William. (2011). Digital Modeling. Edition 1, ISBN 978-0321700896, New Riders Pub
- Legaspi, Chris. (2015). Anatomy for 3D Artists: The Essential Guide for CG Professionals. 3dtotal Publishing

- 3D Animation Essentials *by Beane*
- Introducing Autodesk Maya" (Latest Edition) by Dariush Derakhshani

NOTIONAL CREDIT HOU	RS (NCH)DISTRI	BUTION (1C = 30 hrs	s, 3x30=90	
Lecture /Tutorial Pr	racticum	Experiential Learn	ning	
60) hrs.	_	30 hrs. Conceptual Prototype (10hrs), Project and Portfolio (15hrs), (3hrs), Case studies (5hrs)	
В	reak up of Experie	ntial learning		
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
Conceptual Prototype	NA	10	10	
Project and Portfolio based on trends	NA	15	15	
Shape Exploration	NA	5	5	
	1	Total Hours	30	

Semester III		
Interdisciplinary Course	Motion Design	
Subject Code	AVE092I311	
Credit	3	
L-T-P-C	1-0-4-3	
Scheme of Evaluation	Practical	

<u>Course Objective</u>: The Motion Design Basics course introduces students to the fundamentals of visual storytelling using Photoshop and After Effects. It focuses on developing skills in creating dynamic graphics, animated text, and simple transitions by combining design principles with animation techniques. Students will learn to design assets in Photoshop and animate them in After Effects, gaining a foundational understanding of keyframes, motion paths, timing, and compositing. The course aims to build creative confidence and technical proficiency for entry-level motion graphics work.

Course Outcomes:

CO	Course Outcomes	Blooms
Level		Taxonomy Level
CO 1	Recall the basic tools, functions, and terminology used in Photoshop and After Effects.	BT 1
CO 2	Explain the principles of motion design and how design elements work in animated compositions	BT 2
CO 3	Apply the keyframes, transitions, and basic animation techniques to create motion graphics using After Effects.	BT 3
CO 4	Analyze the design elements and animation timing to enhance visual appeal and storytelling in motion graphics.	BT 4

Modules	Course Contents	Periods
	Introduction to After Effects	
I	Introduction to the UI of software, composition, tools, encoder, and	15
	rendering, Keyframe Animation	
	Introduction to Motion Graphics	
II	Creating holographic HUD, Motion posters, animating texts, shapes	15
	and masking, trim path, and different type of effects, Path Animation,	
	Puppet Tool,	
	Introduction to Effects	
III	Parallax animation, understanding assets and effects, Chroma key,	15
	Tracking and Stabilizing and Mocha Tracking	
IV	Project	15
	Students will have to individually submit projects of each sub contents	
	in a storage device. Teacher will supervise the projects	
	TOTAL	60

- Motion Graphic Design: Applied History and Aesthetics by Krasner
- Design for Motion: Fundamentals and Techniques of Motion Design by Austin Shaw

- The Motion Graphics Handbook by McKissick
- Creating Motion Graphics with After Effects by Chris & Trish Meyer

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs, 3x30=90					
Lecture /Tutorial	Lecture /Tutorial Practicum Experiential Learning				
20hrs	40 hrs.	30 hrs.			
		Project (5hrs), Typography Motion & Color			
		Sync (10hrs), Visual Metaphor Design (5hrs),			
		Morphing Challenge (10)			

Break up of Experiential learning				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
Project	NA	5	5	
Typography Motion & Color Sync	NA	4	10	
Visual Metaphor Design	NA	20	5	
Morphing Challenge	NA	1	10	
	•	Total Hours	30	

Semester III			
AEC-1	CEN III – Fundamentals of Business Communication		
Subject Code	CEN982A301		
Credit	1		
L-T-P-C	1-0-0-1		
Scheme of Evaluation	Theory and Practical		

<u>Course Objective:</u> The aim of the course is to develop essential business communication skills, including effective writing, speaking, and interpersonal communication, to enhance professional interactions, collaboration, and successful communication strategies within diverse corporate environments.

Course Outcomes: On successful completion of the course the students will be able to:

CO Level	Course Outcomes	Blooms Taxonomy Level
CO 1	Define and list business documents using appropriate formats and styles, demonstrating proficiency in written communication for various business contexts.	BT 1
CO 2	Demonstrate confident verbal communication skills through persuasive presentations, active listening, and clear articulation to engage and influence diverse stakeholders.	BT 2
CO 3	Apply effective interpersonal communication strategies, including conflict resolution and active teamwork, to foster positive relationships and contribute to successful organizational communication dynamics	BT 3

Course Outlines:

Units	Course Contents	Periods
Ι	Business Communication: Spoken and Written	5
	The Role of Business Communication	
	Classification and Purpose of Business Communication	
	The Importance of Communication in Management	
	Communication Training for Managers	
	Communication Structures in Organizations	
	Information to be Communicated at the Workplace	
	Writing Business Letters, Notice, Agenda and Minutes	
II	Negotiation Skills in Business Communication	5
	The Nature and Need for Negotiation	
	 Situations requiring and not requiring negotiations 	
	Factors Affecting Negotiation	
	 Location, Timing, Subjective Factors 	
	Stages in the Negotiation Process	
	 Preparation, Negotiation, Implementation 	
	Negotiation Strategies	
III	Ethics in Business Communication	5
	Ethical Communication	
	Values, Ethics and Communication	
	Ethical Dilemmas Facing Managers	
	A Strategic Approach to Business Ethics	
	Ethical Communication on the Internet	
	Ethics in Advertising	
IV	Business Etiquettes and Professionalism	5
	Introduction to Business Etiquette	
	Interview Etiquette	
	Social Etiquette	
	Workplace Etiquette	
	Netiquette	
	Total	20

Textbooks:

- 1. Business Communication by Shalini Verma
- 2. Business Communication by P.D. Chaturvedi and Mukesh Chaturvedi

Semester III		
AEC-2	Behavioural Science -III	
Subject Code	BHS982A302	
Credit	1	
L-T-P-C	1-0-0-1	
Scheme of Evaluation	Theory	

<u>Course objective</u>: To increase one's ability to draw conclusions and develop inferences about attitudes and behaviour, when confronted with different situations that are common in modern organizations. To enable the students to understand the process of problem solving and creative thinking.

Course outcomes: On completion of the course the students will be able to:

CO1: Understand the process of problem solving and creative thinking.

CO2: Develop and enhance of skills required for decision-making.

Modules	Course Contents	Perio ds
I	Problem Solving Process Defining problem, the process of problem solving, Barriers to problem solving (Perception, Expression, Emotions, Intellect, surrounding environment)	4
	Thinking as a tool for Problem Solving What is Thinking: The Mind/Brain/Behaviour Critical Thinking and Learning: -Making Predictions and Reasoning.	4
II	-Memory and Critical Thinking Emotions and Critical Thinking.	
	Creative Thinking	
	- Definition and meaning of creativity,	
	- The nature of creative thinking: Convergent and Divergent thinking,	
Ш	 Idea generation and evaluation (Brainstorming) Image generation and evaluation. The six-phase model of Creative Thinking: ICEDIP model 	4
IV	Building Emotional Competence Emotional Intelligence – Meaning, components, Importance and Relevance Positive and Negative emotions Healthy and Unhealthy expression of emotions	4
	Total	16

Textbooks:

- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 3, Management; Pfeiffer & Company
- Blair J. Kolasa, Introduction to Behavioural Science for Business, John Wiley & Sons Inc.

Semester III		
Minor Course -I Introduction to Visual Effects		
Subject Code	AVE092D313	
Credit	3	
L-T-P-C	1-0-4-3	
Scheme of Evaluation	Practical	

<u>Course Objective</u>: The Introduction to Visual Effects (VFX) course provides a foundational understanding of VFX history, core techniques like compositing, keying, and motion tracking, and the role of VFX in storytelling. Students gain hands-on experience with industry tools such as Adobe After Effects learning to create basic effects and understand the VFX pipeline. The course also introduces team roles, industry workflows, and career pathways in film, television, and digital media.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Define the holographic sequence and overall flow of the story and whether the images effectively convey the intended narrative.	BT 1	
CO 2	Demonstrate live action world into imaginary world using VFX software	BT 2	
CO 3	Apply the knowledge of. VFX for creating FX in shorts	BT 3	
CO 4	Analyze appealing sequence using VFX technique and tools	BT 4	

Modules	Course Contents	Periods
I	Introduction to After Effects: Introduction to the UI of software, composition, tools, encoder, and	15
п	Introduction Motion Graphics: Creating holographic HUD, Motion posters, animating texts, shapes and masking, trim path, and different type of effects, Path Animation, Puppet Tool,	15
III	Introduction Effects: Parallax animation, understanding assets and effects, Chroma key, Tracking and Stabilizing and Mocha Tracking	15
IV	Project: Students will have to individually submit projects of each sub contents in a storage device. Teacher will supervise the projects	15
	TOTAL	60

- 1. Brown, Blain; Cinematography: Theory and Practice, Second Edition: Image Making forCinematographers and Directors; Focal Press, 2011.
- 2. Katz, D Steven; Film Directing Shot by Shot: Visualizing from Concept to Screen; MichaelWiese

- The Visual Effects Handbook: Hollywood's Next-Generation Guide to Digital Filmmaking by Goulekas
- Adobe After Effects Classroom in a Book (*Adobe Press*) Hands-on projects for beginners in compositing and basic VFX.

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs., 3x30=90				
Lecture /Tutorial	Lecture / Tutorial Practicum Experiential Learning			
20hrs	40 hrs.	30 hrs.		
		Project (10hrs), Color Grading a Scene (5hrs),		
		VFX Moodboard & Color Breakdown		
		(10hrs), Rotoscope & Recolor Challenge (5)		

Break up of Experiential learning			
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)
Project	NA	5	10
Color Grading a Scene	NA	4	5
VFX Moodboard & Color Breakdown	NA	20	10
Rotoscope & Recolor Challenge	NA	1	5
		Total Hours	30

Semester IV		
Major Course 1	2D Animation FX and Compositing	
Subject Code	AVE092M411	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> To define the concepts, techniques, principles and practices in Advertising and Public Relations to classify the mysteries of media marketing, positioning, market segmentation and targeting in advertising as well as the significance of media in globalization.

Course Outcomes:

On succe	On successful completion of the course the students will be able to:		
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Recall 2D effects animation (also known as FX animation) special visual effects used in animation to create complex and dynamic effects or natural elements.	BT 1	
CO 2	Illustrate each movement timing, spacing, and squash and stretch. These principles help to create a sense of weight, momentum, and fluidity in the animation	BT 2	
CO 3	Develop technical proficiency, and attention to detail to create smooth and realistic 2d animation that captures the essence of the movement trying to depict.	BT 3	
CO 4	Analyze Pseudo 3d (2.5D) and compile the shot	BT 4	

Modules	Course Contents	
	Advance 2D Animation: Separating biomechanics in performance, character	
	dissection, rigging, tween classic shape motion animation and Lip-syncing with	
I	sound Character Coloring, Character Light and Shade, Guide Layer, Masking,	15
	introduction to Motion Path Animation and tweening, camera	
II	FX: Water, air, fire, sand, and other various dynamics of 2D animation;	15
	Understanding physics in 2D; Pseudo 3d (2.5D)	
III	Compositing: Compositing 2D animation with background, Color grade, Lighting and FX	15
IV	Projects: Students will have to individually submit projects of each sub content in a storage device. Teachers will supervise the projects.	15
	Total	60

- Williams, Richard. (2001). The Animator's Survival Kit
- Elemental Magic: The Art of Special Effects Animation by Joseph Gilland

- Animated Performance: Bringing Imaginary Animal, Human and Fantasy Characters to Life by Nancy Beiman
- Digital Compositing for Film and Video by Steve Wright

	Credit Distri	bution		
Lecture /Tutorial	Practicum Exper		riential Learning	
	60 hrs.	technique (6hrs), I	reference/visualization Project and Portfolio I Burst Challenge (6hrs), 2D Irnal (3hrs)	
	Break up of Experie	ntial learning		
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
inspiration board / reference/visualizationtechnique	NA	6	6	
Project and Portfolio	NA	15	15	
Elemental Burst Challenge	NA	6	6	
2D VFX Analysis Journal	NA	3	3	
To	otal Hours		30	

Semester IV		
Major Course	Rigging & 3D Animation Techniques	
Subject Code	AVE092M412	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course teaches the fundamentals of rigging and 3D animation, covering skeleton setup, IK/FK, controllers, and skinning. Students will create production-ready rigs and animate characters with expressive movement for games, films, and storytelling using industry-standard tools.

Course Outcomes:

On succe	On successful completion of the course the students will be able to:		
CO	Course Outcomes	Blooms Taxonomy	
Level		Level	
CO 1	Define different types of editors that govern the movement and behavior of		
	objects.	BT 1	
CO 2	Explain the setting up of different types of rigging for organic and	BT 2	
	inorganic models.		
CO 3	Develop the form of animations that can be related with different types of materials, sizes, shapes, and characters.	BT 3	
CO 4	Analyze the various elements of rigging with different types of animation using principles of animation.	BT 4	

Modules	Course Contents	Periods
I	Introduction to Nodes & Connections: Node Editor, Utility Nodes, Connection Editor & SDK, Constraints, Joints, and FK/IK Handles,	15
II	Rigging & Skinning of organic and inorganic: Arm Set-up, Leg Set-up, setting up the Skeleton, Finishing the Rig with Controls, Skin Binding and Painting Weights, Facial Rigging, Character Pose with self-reference.	15
III	Animation Principles: Introduction to Animation (Timeline, Slider, Key Frames), Graph Editor, Different materials of bouncing balls together with Concept,	15
IV	Animation Exercise: Biped progressive walk, Run Cycle, Jump with distance, Basic face expressions with Joy, anger, shock, etc.	15
	TOTAL	60

- 3D Animation Essentials: New Directions for Evaluation
- 3D Animation for the Raw Beginner Using Maya by R. King

- Body Language: Advanced 3D Character Rigging by Eric Allen & Kelly L. Murdock
- Animation Methods: Rigging Made Easy by David Rodriguez

NOTIONAL CREDIT HOU	RS (NCH)DISTRI	BUTION (1C = 30 hr	rs, 3x30=90		
Lecture /Tutorial	Practicum	Expe	Experiential Learning		
60) hrs.	-	type (10hrs), Project and (3hrs), Case studies (5hrs)		
В	Break up of Experiential learning				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)		
Conceptual Prototype	NA	8	12		
Project and Portfolio based ontrends	NA	10	20		
Case studies	NA	5	5		
Tota	al Hours		30		

Semester IV		
Major Course	Introduction to Chitra Art with Mograph	
Subject Code	AVE092M413	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course explores how traditional Indian art forms like Madhubani, Warli, and Pattachitra can inspire modern animation through their unique visual styles and storytelling techniques. Students will learn to incorporate visual metaphors, symbolic character designs, and mythological themes into contemporary animation, creating culturally rich narratives that blend heritage with innovation.

Course Outcomes:

CO Level	Course Outcomes	Blooms Taxonomy Level
CO 1	Define the traditional Indian art forms, such as Madhubani art, Warli art, or Pattachitra, can inspire modern animation techniques.	BT 1
CO 2	Relate the use of visual metaphors, storytelling techniques, and character design to convey deeper cultural meanings.	BT 2
CO 3	Applying the incorporation of these unique visual styles into contemporary animation.	BT 3
CO 4	Analyze how Indian mythology, folklore, and traditional art forms can be effectively portrayed through animation.	BT 4

Modules	Course Contents	Periods
I	Introduction to Illustrator Basics:	15
	Overview of Illustrator Interface, Navigation and Workspace,	
	Customization, Understanding Artboards, Using the Pen Tool, Creating	
	Basic Shapes, Editing Paths, and Anchor Points	
II	Organizing and Exporting Objects:	15
	Organizing Artwork with Layers, Creating and Editing Masks, Using	
	Clipping Masks,	
III	Introduction to Mo-graph:	15
	Motion Paths and Graph Editor, Shape Layers and Vector Graphics,	
	Complex Keyframing	
IV	Project:	15
	Students will have to submit a project of each sub-content using only	
	the predefined software.	
	TOTAL	60

- Madhubani Art: Indian Art Series by Bharti Dayal
- Way: An Easy Introduction to Adobe Illustrator
- Adobe After Effects Classroom in a Book published by Adobe Press

- Indian Folk and Tribal Paintings by B.N. Goswamy
- Traditional Indian Painting by A.K. Coomaraswamy

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs, 3x30=90				
Lecture /Tutorial	Practicum	Experiential Learning		
20hrs	40 hrs.	<u>30 hrs.</u>		
	Project (10hrs)			
	Study Tour (10 hrs)			
		Character from the Past (5 hrs)		
		Interaction with industry expert (5 hrs)		

Break up of Experiential learning			
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time(hrs.)
Project	NA	5	10
Study Tour	NA	4	10
Character from the Past	NA	20	5
Interaction with industry expert	NA	1	5
		Total Hours	30

Semester IV		
Minor Course IV	Basics of Video Editing	
Subject Code	AVE092N411	
Credit	3	
L-T-P-C	1-0-4-3	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course introduces the basics of camera operations, shot composition using the rule of thirds, and lighting techniques to enhance visual storytelling. Students will learn to use editing software to combine shots and analyze the final output by integrating camera work, lighting, character design, and storyboarding for effective audio-visual composition.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO	Course Outcomes	Blooms Taxonomy	
Level		Level	
	Show the basics of the camera, how it works, and its functions. Distinguish between various camera body parts, different shot sizes and various camera setups using Rule of Thirds for better composition	BT 1	
	Relate the fundamentals of lighting that affects the visual mood and atmosphere of a scene. It also helps with better storytelling, shaping character experience and enhancing the cinematic lighting techniques	BT 2	
CO 3	Apply the knowledge of software to construct a product from different shots.	BT 3	
CO 4	Analyze the final product/composition containing camera, lighting, designing characters and story boarding/scripting to explore the new dimensions of audio video editing	BT 4	

Modules	Course Contents	Periods
	Fundamentals of Camera: Basics of Camera, its functions, Single camera	
<u>I</u>	and multi-camera setup, accessories, composition, Rule of thirds, different	<u>15</u>
	types of shots.	
	Introduction of Lighting:	
II	Importance of lighting, 3 point Lighting, 5-point Lighting,	15
	Video Software:	
III	Adobe Premiere Introduction, hardware requirements; capturing; Timeline in	15
	depth; mixing; Exporting – all the video formats.	
IV	Video project:	15
	Students will have to shoot and edit a short documentary/film and submit it for	
	the purpose of the course. The film will be scripted, shot and edited by	
	individual/group student for the fulfilment of the course.	
	TOTAL	60

- Cinematography: Theory and Practice by Blain Brown
- Lighting for Cinematography by David Landau

- The Filmmaker's Handbook by Steven Ascher & Edward Pincus
- Grammar of the Shot by Roy Thompson & Christopher Bowen

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs, 3x30=90				
Lecture /Tutorial	Practicum	Experiential Learning		
20hrs	40 hrs.	<u>30 hrs.</u>		
		Project (10hrs)		
		Study Tour (5hrs)		
		Shooting (10hrs)		
		Interaction with industry expert (5hrs)		

Break up of Experiential learning				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
Project	NA	5	10	
Study Tour	NA	4	5	
Shooting	NA	20	10	
Interaction with industry expert	NA	1	5	
	,	Total Hours	30	

Semester IV		
Minor Course V	Fundamentals of Visual Effects	
Subject Code	AVE092N412	
Credit	3	
L-T-P-C	1-0-4-3	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course introduces students to Adobe After Effects, focusing on composition, animation, and visual effects. Students will learn key tools for motion graphics, including path animation, puppet tools, camera projection, tracking, and green screen removal. The course also covers advanced text, shape, and masking animations, culminating in a project showcasing practical application.

Course Outcomes:

CO Level	Course Outcome	Blooms Taxonomy Level
CO 1	<u>Choose</u> the holographic sequence and overall flow of the story and whether the images effectively convey the intended narrative.	BT 1
CO 2	Relate the live action world with VFX to transform it into Imaginary world using VFX software	BT 2
CO 3	Apply the types of typography of different text to be able to adapt for creating any graphics.	BT 3
CO 4	Analyze the knowledge of VFX to create appealing composition.	BT 4

Modules	Course Contents	Periods
I	Introduction to After Effects:	15
	Introduction to the UI of software, composition, tools,	
	encoder, and rendering	
II	Fundamentals of Visual Effects:	15
	Path Animation, Puppet tool Animation, Camera Projection,	
	Understanding assets and effects and Stabilizing, Tracking,	
	Green Screen Removal	
III	Visual Effects:	15
	Animating texts, shapes Animation, masking, trim path,	
IV	Video project:	15
	Students will have to individually submit projects of each sub	
	contents in a storage device. Teacher will supervise the	
	projects	
	TOTAL	60

- The Visual Effects Arsenal: VFX Solutions for the Independent Filmmaker Bill Byrne
- The VES Handbook of Visual Effects: Industry Standard VFX Practices and Procedures by Jeffrey A. Okun & Susan Zwerman (Editors)

- Thinking with Type: A Critical Guide for Designers, Writers, Editors, & Students by Ellen Lupton
- Design for Motion: Fundamentals and Techniques of Motion Design by Austin Shaw

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs., 3x30=90				
Lecture /Tutorial	Practicum	Experiential Learning		
20hrs	40 hrs.	<u>30 hrs.</u>		
		Project (10hrs)		
		Study Tour (4hrs)		
		Shooting (10hrs)		
		Interaction with industry expert (6hrs)		

Break up of Experiential learning				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
Project	NA	5	10	
Study Tour	NA	4	4	
Shooting	NA	20	10	
Interaction with industryexpert	NA	1	6	
	•	Total Hours	30	

Semester IV		
AEC-1	CEN IV: Business Communication: Concepts and Skills	
Subject Code	CEN982A401	
Credit	1	
L-T-P-C	1-0-0-1	
Scheme of Evaluation	Theory and Practical	

<u>Course Objective:</u> This course is designed to enhance employability and maximize the students' potential by introducing them to the principles that determine personal and professional success, thereby helping them acquire the skills needed to apply these principles in their lives and careers.

Course Outcomes: After the successful completion of the course, the students will be able to

CO	Course Outcome	Blooms
Level		Taxonomy Level
CO 2	Demonstrate understanding the importance of verbal and non-verbal	BT 2
	skills while delivering an effective presentation.	
CO 3	Develop professional documents to meet the objectives of the	BT 3
	workplace	

	Identify different life skills and internet competencies required in	
CO 3	personal and professional life.	BT 3

Units	Course Contents	Periods
I	Presentation Skills: Importance of presentation skills, Essential characteristics of a good presentation, Stages of a presentation, Visual aids in presentation, Effective delivery of a presentation	5
	Business Writing:	
П	Report writing: Importance of reports, Types of reports, Format of reports, Structure of formal reports	5
	Proposal writing: Importance of proposal, Types of proposal,	
	structure of formal proposals Technical articles: Types and structure	
	Preparing for jobs:	
	Employability and Unemployability, Bridging the Industry-Academia Gap Knowing the four- step employment process, writing resumes, Guidelines for a good resume, Writing cover letters	5
ш	Interviews: Types of interviews, what does a job interview assess, strategies of success at interviews, participating in group discussions.	

	Digital Literacy and Life Skills:	
	Digital literacy: Digital skills for the '21st century', College students	
	and technology, information management using Webspace, Dropbox,	
	directory, and folder renaming conventions. Social Media Technology	5
	and Safety, Web 2.0.	
	Life Skills : Overview of Life Skills: Meaning and significance of life	
IV	skills, Life skills identified by WHO: self-awareness, Empathy,	
	Critical thinking, Creative thinking, Decision making, problem-	
	solving, Effective communication, interpersonal relationship, coping	
	with stress, coping with emotion.	
	Application of life skills: opening and operating bank accounts,	
	applying for PAN, Passport, online bill payments, ticket Booking, gas	
	Booking	

Texts:

- Business Communication by Shalini Verma References
- Technical Communication by Meenakshi Raman and Sangeeta Sharma

Credit Distribution			
Lecture/Tutorial Practicum Experiential Learning		Experiential Learning	
15 hours	-	10 hours - Movie/ Documentary screening - Field visits - Peer teaching - Seminars - Library visits	

Semester IV		
AEC-2	Behavioural Science -IV	
Subject Code	BHS982A402	
Credit	1	
L-T-P-C	1-0-0-1	
Scheme of Evaluation	Theory	

<u>Course objective:</u> To increase one's ability to draw conclusions and develop inferences about attitudes and behaviour, when confronted with different situations that are common in modern organizations.

Course outcomes: On completion of the course the students will be able to

CO1: Understand the importance of individual differences

CO2: Develop a better understanding of self in relation to society and nation

CO3: Facilitation for a meaningful existence and adjustment in society

Modules	Course Contents	Periods
	Managing Personal Effectiveness	
I	Setting goals to maintain focus,	
1	Dimensions of personal effectiveness (self-disclosure, openness to	4
	feedback and perceptiveness), Integration of personal and	
	organizational vision for effectiveness, A healthy balance of work	
	and play,	
	Defining Criticism: Types of Criticism, Destructive vs	
	Constructive Criticism, Handling criticism and interruptions.	
	Positive Personal Growth	
	Understanding & developing positive emotions, Positive approach towards	4
11	future, Impact of positive thinking, Importance of discipline and hard work,	4
II		
	Integrity and accountability, Importance of ethics in achieving personal	
	growth.	
	Handling Diversity Defining Diversity Affirmation Action and Managing Diversity	4
	Defining Diversity, Affirmation Action and Managing Diversity,	7
III	Increasing Diversity in Work Force, Barriers, and Challenges in Managing Diversity.	
111	Diversity.	
	Developing Negotiation Skills	
	Meaning and Negotiation approaches (Traditional and Contemporary)	4
***	Process and strategies of negotiations.	
IV	Negotiation and interpersonal	
	communication. Rapport Building – NLP.	
	Total	16

Textbooks:

- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 3, Management; Pfeiffer & Company
- Blair J. Kolasa, Introduction to Behavioural Science for Business, John Wiley & Sons Inc.

	Semester V
Major Course:1	Compositing & CGI Integration
Subject Code	AVE092M511
Credit	4
L-T-P-C	0-0-8-4
Scheme of Evaluation	Practical

<u>Course Objective:</u> This course teaches core and advanced skills in digital compositing using tools like After Effects and Nuke. Students will learn to integrate CGI with live-action footage, enhancing visual storytelling through professional post-production techniques.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Define the fundamentals of digital compositing, including techniques like matte painting, chroma keying, and rotoscoping.	BT 1	
CO 2	Demonstrate the process of integrating CGI elements into live footage using tracking, camera projection, and 3D elements.	BT 2	
CO 3	Apply advanced compositing techniques using software such as Aftereffects and Nuke, incorporating color grading and optical	BT 3	
CO 4	Classify a complete compositing project showcasing learned techniques, demonstrating creativity, technical ability, and visual	BT 4	

Modules	Course Contents	Periods
I	Fundamentals of Compositing: Digital Compositing, Camera Projection and Animation, Understanding Mattes and Chroma Keying: Green Screen & Chroma Keying, Rotoscoping, Matte Painting, Sky Replacement	15
П	CGI Integration & Advanced Compositing: Tracking, Camera Tracking & Match moving, Motion Tracking (2D & Mocha Integration), Working with 3D Elements in After Effects, Color Correction & Grading, working with 3D Plugins Element 3D, Enhancing CGI with Optical Effects (Lens Flares, Glows, Distortion)	15
III	Introduction to The Foundry Nuke: Introduction to the UI of the software, Composition, Tools, Encoder and Rendering; Understanding node system; Image projection, using effects and node system to add visual effects, Color correcting footage.	15
IV	Project: Students will have to individually submit projects of each sub content in a storage device. Teachers will supervise the projects.	15
	Total	60

- Digital Compositing with Nuke by Lee Lanier
- The Foundry Nuke X 101: Professional Compositing and Visual Effects by Ron Ganbar

- Nuke 101: Professional Compositing and Visual Effects by Ron Ganbar
- Compositing Visual Effects: Essentials for the Aspiring Artist by Steve Wright

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs., 3x30=90				
Lecture / Tutorial Practicum Experiential Learning				
20hrs	40 hrs.	30 hrs.		
		Project (5hrs), Study tour(4hrs), shooting		
		(20hrs),		

Break up of Experiential learning			
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)
Project	NA	5	5
Study Tour	NA	4	4
Shooting	NA	20	5
Interaction with industry expert	NA	1	1
		Total Hours	30

Semester V		
Major Course:2	Overview of Dynamics	
Subject Code	AVE092M512	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course is designed to provide students with in-depth knowledge and practical skills in soft body dynamics, hair simulation, n-Cloth, and particles within a 3D animation software, focusing on the simulation and rendering of realistic physical behavior and interactions. By the end of the course, students will apply these techniques to individual projects under supervision.

Course Outcomes:

On succe	On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level		
CO 1	List the fundamentals of soft body, rigid body, n-cloth, dynamic constraints, fields, and solvers.	BT 1		
CO 2	Relate Maya's native dynamics to simulate collisions, destruction effects, and secondary motion.	BT 2		
CO 3	Apply n-Cloth properties to simulate cloth behavior on different surfaces and objects.	BT 3		
CO 4	Examine the application of various dynamic simulations by showcasing a complete dynamics-based project.	BT 4		

Modules	Course Contents	Periods
1	Introduction to Soft body Rigid body, n-cloth, Dynamic Constraints, Fields	15
	& Solvers.	
2	Maya's native dynamics simulating collisions: (falling objects, destruction	
	effects)	15
	Adding secondary motion like bouncing , rolling , stacking	
3	n-cloth: Playing with n-Cloth properties: Applying cloth on human body,	
	and Flag simulation with n-cloth.	15
4	Project: Students will have to individually submit projects of each sub	
	contents in a storage device. Teacher will supervise the projects	15
	TOTAL	60

- Learning Maya 6: Dynamics by Alias Learning Tools
- Maya Studio Projects: Dynamics by Todd Palamar

- Autodesk Maya Dynamics: Work with Particles, Fluids, Cloth and More by John Kundert-Gibbs & R. James K. Morrison
- Maya Visual Effects: The Innovator's Guide by Eric Keller

• NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs., 3x30=90			
Lecture / Tutorial Practicum Experiential Learning			
20hrs	40 hrs.	<u>30 hrs.</u>	
	Project (15hrs)		
	Study Tour (5hrs)		
	Acting with Emotion (5hrs)		
		Interaction with Props (5hrs)	

Break up of Experiential learning			
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time (hrs.)
Project Study Tour	NA NA	5 4	15
Acting with Emotion	NA	20	5
Interaction with Props	NA	1	5
	1	Total Hours	30

Semester V	
Elective 1	Rigging and 2D Animation
Subject Code	AVE092M513
Credit	4
L-T-P-C	2-0-4-4
Scheme of Evaluation	Practical

<u>Course Objective:</u> This course covers the full animation production process, from planning to final output. Students will learn to create model sheets, storyboards, animatics, and develop skills in keyframing, in-betweening, lip-syncing, coloring, and basic character rigging.

Course Outcomes:

On succ	On successful completion of the course the students will be able to:		
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Relate the storyboard and animatic <i>sequence</i> and overall flow of the story and whether the images effectively convey the intended narrative.	BT 1	
CO 2	Compare each movement timing, spacing, and squash and stretch to create a sense of weight, momentum, and fluidity in the animation	BT 2	
CO 3	Organize with technical proficiency, and attention to detail to create smooth and realistic 2D animation that captures the essence of the movement trying to depict.	BT 3	
CO4	Analyze the knowledge of Rigging and animation	BT 4	

Modules	Course Contents	Periods
1	Industrial Pipeline: Plan animation production and set deadline for	15
	production	
2	Rigging: Hand and expression sheet, eye blink, Model sheet, background sheet, and storyboarding, Layout process, X sheet/ dope sheet, scratch sound recording. Animatics, Character dissection and rigging tool	15
3	Animation Keyframe animation, in-between animation, test, clean up, test,	
	lip-sync, Inking and Coloring	15
4	Project and Portfolio: Student will submit the Project and portfolio	
		15
	TOTAL	60

• The Art of Rigging (Toon Boom Harmony Edition) by Tony Ross / Toon Boom Certified Trainers

Reference Books:

• How to Cheat in Adobe Animate CC: The Art of 2D Animation by Chris Georgenes

	Credit Distribution			
Lecture /Tutorial	Practicum Experienti		tial Learning	
	60 hrs.	<u>30 hrs.</u>	<u>30 hrs.</u>	
		Flipbook Warn	Flipbook Warm-Up (6hrs),	
		Project and Por	Project and Portfolio (15hrs),	
		Conceptual Ske	etching (6hrs),	
		Case studies(31	nrs)	
Break up of Experiential learning				
Activity	Time required	Time required for	Total Time	
	for preparation	execution (hrs.)	(hrs.)	
	(hrs.)			
Flipbook Warm-Up	NA	6	6	
Project and Portfolio	NA	15	15	
Conceptual Sketching	NA	6	6	
Case studies	NA	3	3	
Total Hours			30	

Semester V	
Minor 1	Stop Motion
Subject Code	AVE092N511
Credit	4
L-T-P-C	2-0-4-4
Scheme of Evaluation	Practical

<u>Course Objective:</u> Student shall be guided on to execute Stop Motion Animation. Student shall cover every step in details, ranging from what and how a story for stop motion animation should be and how does it differ from other forms of storytelling

Course Outcomes:

On succes	On successful completion of the course the students will be able to:		
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Understand interface and workflow of the software for effective work	BT 1	
CO 2	Review the storyboard overall flow of the story and whether the images effectively convey the intended narrative.	BT 2	
CO 3	Apply the knowledge of color, shapes and forms to retain mood and the mass of subject to create smooth <i>sequence</i> .	BT 3	
CO 4	Demonstrate the knowledge of stop motion	BT 4	

Modules	Name	Course Contents	Periods
I	Introduction to	Interface, Tool, Timeline, Properties, setup and	15
	Software and	shooting	
	Staging		
II	Storyboard	Storytelling, Script, shot division /screenplay, storyboard	15
III	Puppetry in stop motion	Bio-Mechanic, 12 principles of animation, Time and spacing, arcs, multiple objects and replacement.	15
IV	Project and portfolio	Video reel with dialogue and Time	15
	Total		

- Effects Stop Motion Animation: How to Make and Share Creative Videos
- Stop Motion: Craft Skills for Model Animation

Reference Books:

• 01 First Steps - Stop Motion Studio Tutorial

• The Stop Motion Filmography by Ray Harryhause

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NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs, 3x30=90			
Lecture / Tutorial Practicum Experiential Learning			
20hrs	40 hrs.	<u>30 hrs.</u>	
		Project (10), Stage set up (5), Shooting (10),	
		Interaction with industry expert (5)	

	Break up of Experiential learning				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)		
Project	NA	5	10		
Stage set up	NA	4	5		
Shooting	NA	15	10		
Interaction with industryexpert	NA	1	5		
		Total Hours	30		

Semester VI		
Major Course 1	Post-production for 2D Animation	
Subject Code	AVE092M611	
Credit	4	
L-T-P-C	2-0-4-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course introduces the basics of 2D animation, focusing on storyboards, animatics, and core principles like color, shape, biomechanics, and fluidity to create clear, visually consistent animated sequences.

Course Outcomes:

	On successful completion of the course the students will be able to:			
CO Level	Course Outcome	Blooms Taxonomy Level		
CO 1	Define the film noir through the visual style and aesthetic of a 2D animation film, which can be achieved through a combination of elements such as cinematic look, lighting, art style and color grading.	BT 1		
CO 2	Develop the way in which a 2D scene is captured on film or digital media are shot composition, and layout process, and they all contribute to the overall interpretation of the scene.	BT 2		
CO 3	Apply the knowledge of post-production to compose 2D animation shots.	BT 3		
CO 4	Analyze the new interpretations of contemporary ideas of animation based on an understanding of 2D animation production.	BT 4		

Modules	Course Contents	Periods
I	Industrial Pipeline on Pre-Production: outline and brief, Script	
	and Style, Storyboarding, Animation and Production, Audio Mix and Delivery.	15
	Compositing in post-production: Layering, Interpolation,	
II	Timeline Management, Fine tuning, Rendering	15
	Final Editing in post-production: 2D Footage Editing	
III		15
IV	Project and Portfolio: Student will submit the Project and	
	portfolio	15
	TOTAL	60

- The Art of Digital Video Editing: A Practical Guide for TV & Film by Michael R. Goodman
- After Effects Apprentice by Trish and Chris Meyer

- The Sound Effects Bible by Ric Viers
- The Visual Story: Creating the Visual Structure of Film, TV, and Digital Media by Bruce Block

Credit Distribution				
Lecture /Tutorial	Practicum	Experiential	Experiential Learning	
	60 hrs.	technique (6h	Inspiration board / reference/visualization technique (6hrs), Project and Portfolio (15hrs) Conceptual Sketching (6hrs), Case studies	
	Break up of Exper	iential learning		
Activity	Time required for preparation(hrs.)	Total Time(hrs.)		
inspiration board / reference/visualizationtechnique	NA	6	6	
Project and Portfolio	NA	15	15	
Conceptual Sketching	NA	6	6	
Case studies NA 3			3	
Total Hours			30	

Semester VI			
Major Course 2	Advanced 3D Dynamics		
Subject Code	AVE092M612		
Credit	4		
L-T-P-C 1-0-6-4			
Scheme of Evaluation	Practical		

<u>Course Objective:</u> By the end of this course, students will be able to develop a strong understanding and practical skills in the application of particle systems, hair styling, dynamics, and rendering in 3D environments.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO Level	Course Outcome	Blooms Taxonomy Level	
CO 1	Identify and describe the fundamental concepts of particle	BT 1	
	systems, including menus, attributes, and emitters.		
CO 2	Explain the process of creating and customizing different particle	BT 2	
	effects such as fire, smoke, explosions, and particles into glass.		
CO 3	Apply the techniques for hair styling, hair dynamics, and	BT 3	
	rendering, integrating these into character designs.		
CO 4	Analyze and develop individual creative projects demonstrating	BT 4	
ı	the application of particle and hair system techniques.		

Modules	Course Contents	Periods
I	Particle System in 3D Dynamics: Introduction to particle	15
	Menus, attributes, Emitters Attributes.	
II	Simulations: Particle Instancer, Creating fire, smoke, explosion,	15
	Particles into Glass.	
III	Grooming: Creating hair on a character, Hair Styling, Hair	15
	Dynamics, and Rendering,	
IV	Project Students will have to individually submit project of each	15
	sub contents in a storage device. Teachers will supervise the	
	projects.	
	TOTAL	60

- Hair: The Fascinating World of Hair, Its Growth, and Car by Joseph J. M
- The Particle Adventure by Eric T. L. and Ian M

- Maya Visual Effects: The Innovator's Guide by Eric Keller
- Introduction to Maya Fluid Effects by Duncan Brinsmead

	Credit Distribution			
Lecture /Tutorial	Practicum		Experiential I	earning
	60 hrs.		<u>30 hrs.</u>	
			Inspiration boa	ard /
			reference/visua	alizationtechnique (6hrs),
			Project and Po	rtfolio (15hrs),
			Conceptual Sketching (6hrs), Case	
			studies(3hrs)	
	Break up of Experie	ntial l	learning	
Activity	Time required for	Time	required for	Total Time(hrs.)
	preparation(hrs.)	execu	ution (hrs.)	
inspiration board /	NA		6	6
reference/visualizationtechnique				
Project and Portfolio	NA		15	15
Industry Exposure	NA		6	6
Case studies	NA		3	3
To	otal Hours			30

Semester VI			
Major Course 3 Procedural Animation and Compositing for Film			
Subject Code AVE092M613			
Credit	4		
L-T-P-C 2-0-4-4			
Scheme of Evaluation	Practical		

<u>Course Objective:</u> This course teaches advanced compositing and VFX using Nuke and Houdini, covering keying, tracking, 3D compositing, and simulations like fire and smoke. Students will learn to create professional VFX shots ready for industry pipelines.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Recall the fundamental concepts of compositing, including Nuke interface, node system, image formats, rotoscoping, tracking, and rendering.	BT 1	
CO 2	Explain the intermediate compositing techniques such as keying, advanced roto, matte painting integration, multi-pass compositing, and color grading.	BT 2	
CO 3	Apply the advanced compositing and CGI integration techniques using Nuke and Houdini, including 3D camera projection, deep compositing, particle systems, and VFX integration.	BT 3	
CO 4	Analyze a complete VFX shot using professional compositing workflows, combining 3D elements, live footage, and procedural effects into a seamless final composition.	BT 4	

Modules	Course Contents	Periods
	Introduction to Nuke & Compositing Basics:	
_	Overview of Nuke Interface & Workflow	
1	 Understanding Nodes, Image Formats & Color Spaces 	15
	Basic Compositing Techniques (Transform, Merge, Keymix)	
	 Working with Rotoscoping, Wire Removal, & Masking 	
	• Sky Replacement, Day to Night, Tracking Basics (2D Tracking), Render	
	and Output Settings	
	Advanced Compositing Techniques:	
II	Keying & Green Screen Removal (Keylight, Primatte, IBK Gizmo)	
	 Advanced Rotoscoping Techniques 	15
	3D Tracking & Camera Projection, Matte Painting Integration	
	 Advanced Color Correction & Grading with Day and Night transition, 	
	Motion Blur & Depth of Field	
	Multi-Pass Compositing & AOVs	

	3D in Nuke & VFX Integration	15
	 Working with 3D Geometry & Cameras, Lighting & Shadows in 	
III	Nuke	
	 Particle Systems & Atmospheric Effects, Deep Compositing 	
	Workflow	
	 Integration with 3D Software (Houdini, Maya) 	
	Final Project: Full Shot Compositing	
	Introduction to Houdini & Procedural Effects	
	Houdini Interface & Procedural Workflow	
IV	 Understanding Nodes & Attributes, Creating Procedural Geometry, 	15
	Introduction to VFX & Expressions	
	 Particle Simulations & Dynamics 	
	 Pyro & Flip Fluids (Fire, Smoke, Water), Exporting Simulations to 	
	Nuke for Compositing	
	TOTAL	60

- Advanced Animation and Rendering Techniques: Theory and Practice Alan Watt, Mark Watt
- Compositing Visual Effects: Essentials for the Aspiring Artist (2nd Edition) Steve Wright

- The VES Handbooks of Visual Effects (3rd Edition) *Jeffrey A. Okun, Susan Zwerman*
- Houdini Foundations by SideFX (Official)
- The Art and Science of Digital Compositing by Ron Brinkmann

	(Credit Distribution	
Lecture /Tutorial	Practicum	Experiential Learning	
	60 hrs.	Project and Port	izationtechnique (6hrs),
Break	up of Experiential	learning	
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)
inspiration board / reference/visualization technique	NA	6	6
Project and Portfolio	NA	15	15
Conceptual Sketching	NA	6	6
Case studies	NA	3	3
Total F	Iours		30

Semester VI		
Major Course 4	Film Appreciation & Analysis	
Subject Code	AVE092M604	
Credit	4	
L-T-P-C	3-1-0-4	
Scheme of Evaluation	Theory	

<u>Course Objective:</u> This course aims to provide students with a comprehensive understanding of film language, visual storytelling techniques, and the evolution of cinema and visual effects. Through the study of narrative structures, cinematography, mise-en-scene, editing, sound design, and film genres, students will develop the ability to analyze and appreciate films critically. Additionally, students will explore contemporary trends in animation and digital filmmaking, with a focus on the impact of VFX, virtual production, and AI technologies in modern storytelling.

Course Outcomes:

On successful completion of the course the students will be able to:				
CO Level	Course Outcomes	Blooms Taxonomy Level		
CO 1	Relate to the history and evolution of the language of films and visual storytelling.	BT 1		
CO 2	Explain the key elements of filmmaking – narrative, cinematography, mise-en-scene, editing, sound, and genres.	BT 2		
CO 3	Develop the understanding of film analysis techniques & criticism	BT 3		
CO 4	Examine the contemporary trends in filmmaking	BT 4		

Modules	Course Contents	Periods
	Introduction to Film Language & Visual Storytelling: Understanding Film	
	as an Art Form, Overview of the history of evolution of films, Overview of the	
I	history and evolution of Visual effects in Media	13
	Analyzing the Elements of Film:	
	Narrative, Cinematography, mise-en-scene, editing, sound,	
II	Film genres	13
	Film Analysis Techniques & Criticism: Film Criticism, Observation &	
	Interpretation, Acting Techniques & Character Development, Symbolism,	
III	Metaphor & Subtext in Film Language	13
	Contemporary Trends in Animation Filmmaking: Evolution of Digital	
	Filmmaking & Streaming Era, Influence of Technology (VFX, Animation,	
IV	Virtual Production, AI in Filmmaking), Practical: Analyzing a Short	
	Film/Scene in Class	13
	TOTAL	52

- Film Art: An Introduction by David Bordwell & Kristin Thompson
- A Short Guide to Writing About Film by Timothy Corrigan
- Understanding Movies by Louis Giannetti

- How to Read a Film by James Monaco
- Understanding Movies by Louis Giannetti

NOTIONAL CREDIT HOURS	(NCH)DISTRIBUTION	N (1C = 30 hrs., 3x30=	90
Lecture /Tutorial	Practicum	Experiential Le	arning
	60 hrs.	<u>30 hrs.</u>	
		Conceptual Pro Project and Por (3hrs), Case stu	tfolio (15hrs),
Breal	k up of Experiential lea	rning	
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time (hrs.)
Conceptual Prototype	NA	8	12
Project and Portfolio based ontrends	NA	10	20
Case studies	NA	5	5
	I	Total Hours	30

Semester VI		
Minor Course 1	Pencil to Pixel	
Subject Code	AVE092N611	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> Student shall execute 2d Animation. Student shall cover every step in details, ranging from what and how a story for stop motion animation should be and how does it differ from other forms of storytelling.

Course Outcomes:

On successful completion of the course the students will be able to:		
CO Level	Course Outcomes	Blooms Taxonomy Level
CO 1	Find the animation skills in using industry-standard animation software	BT 1
CO 2	Classify the storyboard overall flow of the story and whether the images effectively convey the intended narrative.	BT 2
CO 3	Apply the knowledge of color, shapes and forms to retain mood and the mass of subject to create smooth <i>sequence</i> .	BT 3
CO 4	Examine the knowledge of Bio-Mechanics and animated sequence	BT 4

Modules	Course Contents	Periods
	Introduction to the software: Interface, Tool, Timeline,	15
I	Properties, tweening	
II	Digital animation: 12 principles of digital animation	
		15
III	Storyboard and character: Storytelling, Script, shot division screenplay, storyboard/ animatic and simple shapes, character building and rigging	15
IV	Project: Scene to animate	15
	TOTAL	60

- The Illusion of Life: Disney Animation by Frank Thomas and Ollie Johnston
- Cartoon Animation by Preston Blair

Reference Books:

• Character Animation by Eric Goldberg

NOTIONAL CREDIT HOURS (NCH)DISTRIBUTION (1C = 30 hrs, 3x30=90			
Lecture /Tutorial	Practicum	Experiential Learning	
20hrs	40 hrs.	<u>30 hrs.</u>	
		Project (5hrs), Study tour(4hrs), Editing (5)	
		shooting (20hrs), Interaction with industry expert	

Break up of Experiential learning				
Activity	Time required for preparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
D : .	L	execution (ms.)		
Project	NA	5	5	
Study Tour	NA	4	10	
Editing	NA	20	5	
Interaction with industry	NA	1	10	
expert				
Total Hours			30	

Semester VII		
Major Course 1	Concept for Game Design and Prototype	
Subject Code	AVE092M711	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> Students construct their own games with visual storytelling, game mechanics and strategic gameplay. Devise rules that engage players and prototype components like cards, tokens and boards. Through hands-on playtesting and critique, refine your ideas into playable games that challenge and entertain.

Course Outcomes:

On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level	
CO 1	Define the basics of Game Play, Game theory, Equilibrium	BT 1	
CO 2	Interpret the interface of the software and explore Nash Equilibrium	BT 2	
CO 3	Apply the knowledge of Game Design to build the blueprint	BT 3	
CO 4	Analyze the game prototype	BT 4	

Modules	Course Contents	Periods
Ι	Introduction to Game: Game players, strategy, payoff, information set, equilibrium	15
II	Game Theory Strategies and Equilibrium: Types of game theory, Strategies, Nash Equilibrium, Software uses	15
III	Game Design: Types, game genres, game moment and RPGs, Blueprint, Game environment, game component	15
IV	Project: Prototyping of analog, Digital, gamification	15
	TOTAL	60

- The Books of Board Games: An Introduction to Modern Tabletop Gaming *by Oliver Roeder*
- Make Your Own Board Game: Designing, Building, and Playing an Original Tabletop Game *by Jesse Terrance Daniels*

Reference Books:

• Introduction to (Tabletop) Role-playing Game Design by Brent Newhall

	Credit Distribution				
Lecture /Tutorial	Practicum		Experiential Le	ntial Learning	
NA	60 hrs.		30 hrs.		
			Prototype making	Prototype making (10hrs), Study Tour	
			(preparation – 3	hrs, presentation 1hrs),	
			Brainstorming ((1hrs on preparation, 4hrs on	
			presentation), In	nteracting with expert (5hrs).	
			Case studies (61	hrs)	
	Break up of Experiential learning				
Activity	Time required	Tim	ne required for	Total Time(hrs.)	
	for preparation	exec	cution (hrs.)		
	(hrs.)				
Prototype making	NA		10 hrs	10 hrs	
Study Tour	3 hrs		1 hrs	4 hrs	
Brainstorming 4 hrs		1 hrs	5 hrs		
Interacting with expert	NA		5 hrs	5 hrs	
Case studies NA			6 hrs	6 hrs	
	Total Hours 30				

Semester VII		
Major Course 2	Research Methodology	
Subject Code	AVE092M702	
Credit	4	
L-T-P-C	3-1-0-4	
Scheme of Evaluation	Theory	

<u>Course Objective:</u> To make the students aware of research culture among academics and professionals in different fields. To undertake research in their specific academic fields on philosophical, epistemological understanding of the elements of research. To provide knowledge skills of various types of research designs and its procedures to conduct research to meet the national and international requirements.

Course Outcomes:

On suc	On successful completion of the course the students will be able to:				
CO Level	Course Outcomes	Blooms Taxonomy Level			
CO 1	Define the different aspects of research.	BT 1			
CO 2	Demonstrate the research methods critically, creatively, and independently	BT 2			
CO 3	Apply the different research articles from different sources and categorize them	BT 3			
CO 4	Analyse the evaluates in-depth information from diverse sources	BT 4			

Modul	Course Contents	Periods
es		
	Introduction to Research: Definition & Concept (Variables, Hypothesis,	
Ι	Theory), Objectives, scope and importance of Research, Types of research,	13
	Approaches to research (quantitative and qualitative and mixed method);	
	Steps in research, Concept of reliability, Validity.	
II	Methods & methodologies of Research: Qualitative- Quantitative Technique,	13
	Content Analysis, Sample Survey Method, Observation Methods, Experimental	
	Studies, Case Studies, Interview Method, Focus Groups, Ethnography Narrative	
	Analysis, Historical research, Sampling techniques.	
III	Data Collection: Data Collection Techniques, Primary Data, Secondary	13
	Data, Methods of collecting data, Statistical Analysis (Descriptive &	
	Inferential Statistics), Central Tendency, Dispersion, Presentation, and	
	Interpretation of Research Findings	
IV	Report Writing: Research Proposal and Report Writing, Presentation of	13
	research reports, Referencing and Citation Style, Ethics in Research	
	TEOTRA I	<u> </u>
	TOTAL	52

• Mass Media Research, Roger, Wimmer. D and Dominick, Joseph,R; Thomson Wadsworth; 2006.

- Berger, Arthur Asa; *Media Research Techniques*; Second Edition; Sage Publications, New Delhi; 1998.
- Fiske, John; *Introduction to Communication Studies*; Third Edition; Routledge Publications; 1982.
- Croteau, David and Hoynes; *Media/Society: Industries, Images and Audiences;* William; Forge Press; 2002.
- Kothari, C.R; Research Methodology: Methods and Techniques; New Age International Ltd. Publishers; 2013.

Lecture /Tutorial	Practicum	Experiential Lea	Experiential Learning	
NA	60 hrs.	<u>30 hrs.</u>	30 hrs.	
			ield Study (preparation –	
		=	on 1hrs), Creative Writing ation, 4hrs on presentation),	
			actor (5hrs). Case studies	
		(6hrs)	,	
	Break up of Experi	iential learning		
Activity	Time required	Time required for	Total Time(hrs.)	
	for preparation	execution (hrs.)		
	(hrs.)			
R&D	NA	10 hrs	10 hrs	
Field Study	3 hrs	1 hrs	4 hrs	
Creative Writing	4 hrs	1 hrs	5 hrs	
Interacting with expert	NA	5 hrs	5 hrs	
Case studies	NA	6 hrs	6 hrs	
	I	Total Hours	30	

Semester VII		
Major Course 3	Visual Effects Production	
Subject Code	AVE092M713	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course offers a comprehensive overview of the VFX production pipeline, covering pre-production, 3D modeling, animation, FX simulations, and compositing. Students will learn to integrate CG with live-action footage and develop a professional showreel, preparing them for entry-level roles in film, TV, advertising, and gaming industries.

Course Outcomes:

On succe	On successful completion of the course the students will be able to:				
CO Level	Course Outcome	Blooms Taxonomy Level			
CO 1	Define the VFX production pipeline and demonstrate an understanding of pre- production processes such as storyboarding, cinematography, and previs.	BT 1			
CO 2	Classify 3D asset creation techniques, including modelling, texturing, shading, lighting, animation, and FX simulations, using industry-standard tools.	BT 2			
CO 3	Apply compositing workflows, including match moving, rotoscoping, multipass compositing, colour grading, and integrating CG into live-action footage.	BT 3			
CO 4	Analyse a final VFX project, demonstrating project planning, asset management, rendering optimization, and development of a professional showreel tailored for the VFX industry.	BT 4			

Modules	Course Contents	Periods
	Introduction to Visual Effects & Pre-Production	
_	1. Understanding VFX & Industry Overview	
I	2. VFX Production Pipeline	15
	3. Concept Development & Storyboarding	
	4. Introduction to Camera & Cinematography for VFX	
	5. Introduction to Previsualization (Previs)	
	3D Asset Creation & Animation	
	1. 3D Modeling for VFX	
II	2. Shading, Lighting & Rendering	15
	3. Introduction to Animation & Rigging	
	4. Particle Effects & Simulations	
	 Using Houdini / Blender for FX Simulations 	
	 Fire, Water, Smoke, Destruction FX 	
	 Procedural Workflows 	

	Compositing & post-production	
	1. Introduction to Compositing	
III	2. Match moving & Rotoscoping	15
	3. Advanced Compositing Techniques	
	 3D Projection & Camera Mapping 	
	 Multi-Pass Compositing 	
	 Color Grading & Look Development 	
	4. Integration of CG with Live-Action	
	 Shadow Matching & Reflections 	
	 Depth & Parallax Effects 	
	 Advanced Matte Painting 	
	Final Project & Industry Preparation	
	1. Project Planning & Asset Management	
IV	 Shot Breakdown for Production 	15
	 Using Shot Grid or Production Tracking Tools 	
	2. Rendering & Optimization	
	 Render Layering Techniques 	
	 GPU vs CPU Rendering 	
	 Render Passes & Post-Processing 	
	3. Portfolio Development & Showreel Creation	
	 Choosing & Editing Best Shots 	
	 Creating a Demo Reel for VFX Studios 	
	TOTAL	60

- Producing VFX: A Guide to Managing the Process by Charles Finance & Susan Zwerman
- Filming the Fantastic: A Guide to Visual Effects Cinematography by Mark Sawicki

- The Visual Effects Producer: Understanding the Art and Business of VFX by Charles Finance & Susan Zwerman
- Digital Compositing for Film and Video (4th Edition) by Steve Wright

	•	Credit Distribution		
Lecture /Tutorial	Practicum	Experiential Lea	arning	
NA	60 hrs.	<u>30 hrs.</u>	<u>30 hrs.</u>	
		Extracurricular Asset Collection presentation 1hr preparation, 4hrs exposure (5hrs).		
	Break up of Experi	iential learning		
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
Extracurricular Activity	NA	10 hrs	10 hrs	
Shoot & Asset Collection	3 hrs	1 hrs	4 hrs	
Editing	4 hrs	1 hrs	5 hrs	
Industry exposure	NA	5 hrs	5 hrs	
Project	NA	6 hrs	6 hrs	
	I	Total Hours	30	

Semester VII		
Major Course 4	Overview of UI/UX	
Subject Code	AVE092M714	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective:</u> This course provides students with essential skills in interface design and user experience research. It emphasizes user-centered design, enabling learners to create intuitive UI/UX solutions. Through wireframing, prototyping, and usability testing, students develop and refine functional designs, leading to a high-quality final prototype.

Course Outcomes:

On successful completion of the course the students will be able to:				
CO	Course Outcomes	Blooms		
Level		Taxonomy Level		
CO 1	Recall the principles of interface design and the different methods undertaken to study user experiences.	BT 1		
CO 2	Demonstrate user-centered design principles to the creation of effective UI/UX solutions.			
CO 3	Apply wireframing, prototyping, and usability testing techniques to develop functional design outputs.	BT 3		
CO 4	Analyze the designs to plan and execute a final quality output of the prototype.	BT 4		

Modules	Course Contents	Periods
I	Introduction to User Interface: UI history, User Centered Thinking, Context and Empathy, UI Design Process, User Xperience, Action History, UX processes and development	15
II	Wire framing: Design wireframes for a website or app based	15
III	Prototyping: Turn a wireframe into an interactive prototype, Usability Testing	15
IV	Mobile Design: Redesign an existing website with a mobile-first approach	15
	TOTAL	60

- Do not Make Me Think: A Common-Sense Approach to Web Usability by Steve Krug
- The Design of Everyday Things by Don Norman

- Hooked: How to Build Habit-Forming Products by Nir Eyal
- Lean UX: Designing Great Products with Agile Teams by Jeff Gothelf & Josh Seiden

Lecture /Tutorial	Practicum	Experiential Lea	arning	
NA	60 hrs.	Brainstorming (1 presentation), Int	30 hrs. R&D (10hrs), (preparation – 3hrs &1hrs), Brainstorming (1hrs on preparation, 4hrs on presentation), Interacting with UI/UX exper (5hrs). Case studies (6hrs)	
	Break up of Exper	iential learning		
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
R&D	NA	10 hrs	10 hrs	
Studio Visit	3 hrs	1 hrs	4 hrs	
Brainstorming	4 hrs	1 hrs	5 hrs	
Interacting with UI/UX expert NA		5 hrs	5 hrs	
Case studies NA		6 hrs	6 hrs	
	I	Total Hours	30	

Semester VII			
Minor Course 1 Introduction to Architectural Modelling			
Subject Code	AVE092N711		
Credit	4		
L-T-P-C	1-0-6-4		
Scheme of Evaluation	Practical		

<u>Course Objective:</u> The objective of this course is to equip students with the fundamental skills required for architectural modeling, texturing, and rendering using 3ds Max. Students will learn how to create detailed and realistic architectural models from various architectural styles, apply different textures and materials, and produce high-quality renders using industry-standard render engines.

Course Outcomes:

On succe	On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level		
CO 1	Find different forms of architecture to visualize the art form for better composition.	BT 1		
CO 2	Compare the different era architecture into digital form.	BT 2		
CO 3	Apply the knowledge of texture to beautify an architecture of different era.	BT 3		
CO 4	Examine the appealing renders using models, texture, and lights.	BT 4		

Modules	Course Contents	Periods		
I	Introduction to Modelling: Introduction to 3ds Max to create	15		
	different types of Prehistoric, Modern, Classical, Vernacular,			
	Contemporary Architectures, Importance of architecture in			
	different historical periods			
II	Types of Modifiers: Extrude, Modifiers, Object Modifiers, Edit	15		
	Modifiers, and World-Space Modifiers			
III	Materials & Texturing: Baking of different Maps such as	15		
	Diffuse Map, Metallic Map, Roughness Map, Transmission Map,			
	Height Map, Displacement Map, and Sub Surface Scattering Map,			
	Texturing software to finalize the look			
IV	Physically Based Rendering Using Render Engine like Arnold,	15		
	V-ray, Lumion to export the final Render			
	TOTAL	60		

- Architectural Model Building: Tools, Techniques & Materials 1st Edition by Roark T. Congdon
- A Practical Study in the Discipline of Architectural Model making by James Taylor-Foster

- The Theory of Architecture: Concepts, Themes, and Practices by Paul-Alan Johnson
- The Impact of Building Information Modelling by Ray Crotty

	Credit Distribution			
Lecture /Tutorial	Practicum		Experiential Learning	
	60 hrs.		30 hrs. Extracurricular Activity (10hrs), Room Interior Modelling (preparation – 3hrs, presentation 1hrs), Style Recreation Exercise (1hrs on preparation, 4hrs on presentation), Digital Environment Composition (5hrs). Case studies (6hrs)	
]	Break up of Experi	ientia	l learning	
Activity	-		e required for cution (hrs.)	Total Time(hrs.)
Extracurricular Activity	NA 10		nrs	10 hrs
Room Interior Modelling 3 hrs		1 hrs		4 hrs
Style Recreation Exercise 4 hrs		1 hrs		5 hrs
Digital Environment Composition	n NA :		S	5 hrs
Case studies NA		6 hr	S	6 hrs
			Total Hours	30

Semester VIII			
Minor Course 1 Media Entrepreneurship			
Subject Code AVE092M801			
Credit	4		
L-T-P-C	3-1-0-4		
Scheme of Evaluation Theory			

Course Objective:

- * To understand the fundamentals of entrepreneurship in the context of media
- * To develop critical thinking and problem-solving skills to address challenges in media entrepreneurship
- * To learn about the legal aspects of Media Business in India

Course Outcomes:

On succe	On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level		
CO 1	Define and explain fundamental concepts, nature, scope, and types of entrepreneurships, with a focus on media entrepreneurship.	BT 1		
CO 2	Demonstrate the various entrepreneurship theories and frameworks and explain their relevance in the context of media startups.	BT 2		
CO 3	Apply the ideation techniques, market analysis tools, and business planning strategies to identify and evaluate entrepreneurial opportunities in the media sector.	BT 3		
CO 4	Analyze the legal, ethical, and regulatory frameworks to assess their implications in the context of starting and running media enterprises.	BT 4		

Modules	Course Contents	Periods
I	Introduction to Entrepreneurship: Meaning, definition and concept of entrepreneurship, Nature and scope of media entrepreneurship, Historical overview and evolution of media startups, Entrepreneurs versus inventors, Challenges and risks in media entrepreneurship, Types of entrepreneurs: Clarence Danhof Classification, Arthur H. Cole Classification, Classification Based on Ownership, Classification, Classification, Classification Based on the Scale of the Enterprise	13
п	Theories of Entrepreneurship: Theories: Economic, Classical, Neo Classical, Psychological, Personality Traits, Need for achievement, Sociological, Anthropological entrepreneurial, Opportunity based Entrepreneurship theory, Resource based Entrepreneur, Financial Capital/ Liquidity, Social Capital or Social Network Theory, Entrepreneurial Motivation – The Needs Framework, Manifest Needs Theory	13

III				
	planning and development, creating a Business Plan, Startup India, Stand-up India, Make in India, Digital India, Ministry of Skill Development, and their			
	initiatives, NSDA, NSDC			
	Legal Aspects Regulations to set up a new business, Legal issues in setting up the organization, patents, business methods patents, trademarks, copyrights,			
IV	trade secrets, licensing, product safety and liability, insurance, contracts, Indian Contract Act, 1872, Sale of Goods Act, 1930, The Competition Act, 2002, Ethical dilemmas in media entrepreneurship, social responsibility, and			
	community engagement.			
	TOTAL	52		

- Dahiya, S. (2023). Digital First: Entrepreneurial Journalism in India, OUP, UK
- Berger, A.A. (2018). Media and Communication Research Methods: An Introduction to Qualitative and Quantitative Approaches. SAGE Publications

- Ferrier, Michelle & Mays, Elizabeth. (2017). Media Innovation and Entrepreneurship. Rebus Community.
- Lamont, Ian. (2017). Lean Media: How to Focus Creativity, Streamline Production, and Create Media That Audiences Love. I30 Media Corporation.

		Credit Distribution		
Lecture /Tutorial	Practicum	Experiential Learning		
NA	60 hrs.	30 hrs. Startup Idea Sprint (10hrs), Build-a-Brand Challenge (preparation – 3hrs, presentation 1hrs), Audience Testing & Iteration (1hrs on preparation, 4hrs on presentation), Startup Pitch Day (5hrs). Case studies (6hrs)		
	Break up o	f Exp	eriential learning	
Activity	Time required for preparation(hrs.		Time required for execution (hrs.)	Total Time(hrs.)
Startup Idea Sprint	NA		10 hrs	10 hrs
Build-a-Brand Challenge	3 hrs		1 hrs	4 hrs
Audience Testing & Iteration	4 hrs		1 hrs	5 hrs
Startup Pitch Day	NA		5 hrs	5 hrs
Case studies	NA		6 hrs	6 hrs
			Total Hours	30

Semester VIII		
Minor Course 1	Papercut Puppetry	
Subject Code	AVE092N811	
Credit	4	
L-T-P-C	1-0-6-4	
Scheme of Evaluation	Practical	

<u>Course Objective</u>: students shall be guided on to execute Paper cut puppetry Animation. Student shall cover what and how a story for Paper puppetry animation should be.

Course Outcomes:

On succe	On successful completion of the course the students will be able to:			
CO Level	Course Outcomes	Blooms Taxonomy Level		
CO 1	Find the interface and workflow of the software for effective work	BT 1		
CO 2	Explain the storyboard overall flow of the story and whether the images effectively convey the intended narrative.	BT 2		
CO 3	Apply the knowledge of Paper cut rigs to create smooth <i>sequence</i> .	BT 3		
CO 4	Analyze the knowledge of Paper cut mechanism	BT 4		

Modules	Course Contents	Periods
I	Software and Staging: Interface, Tool, Timeline, Properties, setup, and shooting	15
II	Storyboard: Storytelling, Script, shot division/screenplay, storyboard	15
III	Puppetry : Time and spacing, arcs, multiple objects, and replacement.	15
IV	Final portfolio: Video reel with dialogue and Time	15
	TOTAL	60

- Paper Puppet Palooza by Norma V. Toraya
- Playing with Pop-ups: The Art of Dimensional, Moving Paper Designs by Helen Hiebert

- Shadow Puppets and Shadow Play by David Currell
- Paper Cut: An Exploration into the Contemporary World of Papercraft Art and Illustration *by Owen Gildersleeve*

	Credit Distribution					
Lecture /Tutorial	Practicum Experiential Lear		arning			
NA	60 hrs.	3hrs, presentati(1hrs on preparat	Ohrs), Pre-Production (preparation tion 1hrs), Shadow Theatre Scene ation, 4hrs on presentation), uppet Play (5hrs). Cultural Puppet (6hrs)			
	Break up of Experiential learning					
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time(hrs.)			
Shoot	NA	10 hrs	10 hrs			
Pre-Production	3 hrs	1 hrs	4 hrs			
Project	5 hrs	4 hrs	9 hrs			
Puppet Play	NA	1 hrs	1 hrs			
Cultural Puppet Reinterpretation	NA	6 hrs	6 hrs			
		Total Hours	30			

Semester VIII			
Major Course 3	Short Film for 2D Animation		
Subject Code AVE092M813			
Credit 4			
L-T-P-C 0-0-8-4			
Scheme of Evaluation Practical			

<u>Course Objective</u>: Students will gain a comprehensive understanding of the animation production process, from the initial planning stages to the final output. They will develop practical skills in creating 2D animation. The course will cover the importance of understating teamwork and Industry pipeline.

Course Outcomes:

On suc	On successful completion of the course the students will be able to:				
CO Level	Course Outcomes	Blooms Taxonomy Level			
CO 1	Recall the storyboard and animatic <i>sequence</i> and overall flow of the story and whether the images effectively convey the intended narrative.	BT 1			
CO 2	Illustrate with technical proficiency, and attention to detail to create smooth and realistic 2D animation that captures the essence of the movement trying to depict.	BT 2			
CO 3	Develop the knowledge of 2D animation to generate short films	BT 3			
CO 4	Examine the animated short films	BT 4			

Modules	Course Contents	Periods
I	Industrial Pipeline Plan for animation production and set deadlines for production	15
II	Per Production and production Script, Storyboard Animatic, character background, Sound Animation workflow and animation production	15
III	Postproduction Compositing and Editing	15
IV	Final Project Student will submit the Project (Short Film) duration 1 min	15
	TOTAL	60

- The Animation Books: A Complete Guide to Animated Filmmaking
- The Animator's Survival Kit by Richard Williams

- Directing the Story: Professional Storytelling and Storyboarding Techniques by Francis Glebas
- Writing for Animation, Comics, and Games by Christy Marx

		Credit Distribution		
Lecture /Tutorial	Practicum	Practicum Exper		
NA	60 hrs.	(preparation – 3h Animatics (1hrs	rs), Scratch Sound ars, presentation 1hrs), on preparation, 4hrs on eracting with animator ies (6hrs)	
	Break up of Experi	iential learning		
Activity	Time required for preparation (hrs.)	Time required for execution (hrs.)	Total Time(hrs.)	
Production	NA	10 hrs.	10 hrs.	
Scratch Sound	3 hrs	1 hrs	4 hrs.	
Animatics	1 hrs	4 hrs	5 hrs.	
Interacting with animator	NA	5 hrs	5 hrs.	
Case studies	NA	6 hrs	6 hrs	
	I	Total Hours	30	

Semester VIII			
Major Course 4	3D Portfolio Development		
Subject Code AVE092M814			
Credit	4		
L-T-P-C 0-0-8-4			
Scheme of Evaluation Practical			

<u>Course Objective</u>: To equip students with industry-standard 3D production pipeline knowledge and to develop a professional portfolio tailored to animation, gaming, VFX, or product visualization industries. To encourage creativity while adhering to global industry workflows and to enhance collaboration, communication, and presentation skills.

Course Outcomes:

CO Level	Course Outcomes	Blooms Taxonomy Level
CO 1	Choose the complete 3D production pipeline, industry roles, software, and documentation standards.	BT 1
CO 2	Explain the process of asset creation, optimization techniques, and technical checks used in industry workflows.	BT 2
CO 3	Apply the industry-standard tools and techniques to create optimized 3D assets, work collaboratively on a simulated project, and manage asset pipelines.	BT 3
CO 4	Analyze the portfolio work, incorporating peer and industry feedback, and presassets using professional standards.	ent BT A (Analyze)

Modules	Course Contents	Periods		
	Industry pipeline and understanding- Introduction to 3D Production			
	Pipelines: Pre-production, Production & Post-production (Animation,			
I	Gaming, VFX & Product Design), Understanding Roles &	15		
	Responsibilities (Modeler, Texture Artist, Animator, Lighting Artist,			
	FX Artist, Compositor), Software, Tools (Industry-standard), Industry			
	Documentation (Asset List, Naming Conventions, File Management),			
	Analysing Showreels from Top 3D Studios & Artists			
	Asset creation and optimization- 3D Modelling for Portfolio (Hard			
	Surface & Organic Modelling, High Poly vs Low Poly), Asset			
II	II Optimization (for games, animation, or AR/VR), Texturing & UV			
	Mapping (PBR Texturing Workflow, UV Layout Best Practices,			
	Material Library Creation), Asset Integration (Importing to Game			
	Engines/Rendering Software), Technical Checks (Polygon Count,			
	Topology, Edge Flow), Asset Documentation (Turntable, Wireframe			
	Renders, Texture Maps)			

	Industry project simulation & collaboration- Simulated				
	Industry Project (Teamwork) (Assigning Roles (like a mini-				
III	studio), Developing Asset/Scene Pipeline), Project Management	15			
	(Using Trello/Shot-Grid, Milestone Tracking & Feedback Loops),				
	Cross-platform Testing (Portfolio-ready for Web, Unreal, Unity),				
	Case Studies: (Reviewing Successful 3D Portfolios from Industry				
	Learning from Industry Failures)				
	Final Portfolio development & showcase-				
	Structuring the Portfolio (Asset Showcase, Breakdown Sheets,				
IV	Wireframe, Textures, Final Renders), Presentation Techniques	15			
	(Video Turntable, Marmoset Viewer, Sketch-fab), Personal				
	Branding (Online Portfolio Website (Art-Station, Behance),				
	Resume & Showreel Integration), Peer Review & Industry				
	Critique, Final Portfolio Submission				
	TOTAL	60			
		_1			

Text Books:

- 3D Art Essentials by Ami Chopine
- Digital Modelling by William Vaughan
- The Game Artist's Guide to Maya by Michael McKinley

- Game Asset Pipeline by Ben Garnell
- Production of Pipeline Fundamentals for Film and Games by Renee Dunlop

		Credit Distri	bution		
Lecture /Tutorial	Practicum Experiential Learning				
NA 60 hrs.		30 hrs. Shoot (10hrs), Pre-Production (preparation – 3hrs, presentation 1hrs), Interacting with animator (1hrs on preparation, 4hrs on presentation), Case Study (5hrs). Post-Production (6hrs)			
		Break up of Experie	ntial learning		
Activity	Time reco	quired for preparation	Time required for execution (hrs.)	Total Time(hrs.)	
Shoot	NA		10 hrs	10 hrs	
Pre-Production 3 hrs.			1 hrs	4 hrs	
Interacting with animator NA			1 hrs	5 hrs	
Case Study 4 hrs			5 hrs	5 hrs	
Post-Production NA			6 hrs	6 hrs	
	•		Total Hours	30	

Semester VIII				
Major Course	VFX – Portfolio Development			
Subject Code	AVE092M815			
Credit	4			
L-T-P-C	0-0-8-4			
Scheme of Evaluation	Practical			

<u>Course Objective:</u> This course prepares students to create a professional VFX portfolio and showreel aligned with industry standards. Students will analyze trends, identify target roles, curate their best work, and present their skills through effective storytelling and editing. Emphasizing technical refinement and career preparation, the course ensures students develop a strong online presence and gain essential tools like a resume, cover letter, and interview skills to confidently enter careers in VFX, film, gaming, and advertising.

Course Outcomes:

On successful completion of the course the students will be able to:				
CO Level	Course Outcome	Blooms Taxonomy Level		
CO 1	Recall the importance of VFX portfolios, analyse industry trends, and suitable roles and project types for the portfolio.	BT 1		
CO 2	Relate the asset collection, shot selection, and refinement techniques to curate high-quality content for a VFX showreel.	BT 2		
CO 3	Apply the ability to edit, present, and showreel with storytelling, pacing, and professional formatting.	BT 3		
CO 4	Analyze a complete portfolio package, including an online presence, resume, cover letter, and showreel, ready for industry submission.	BT 4		

Modules	Course Contents	Periods
I	 Understanding Portfolio Requirements & Industry Standards Importance of a VFX Portfolio in the Industry Analysing Showreels from Top VFX Studios & Artists Understanding Target Roles (Compositor, FX Artist, Animator, Matte Painting Artist) Choosing the Right Type of Projects for Your Portfolio Researching VFX Industry Trends (Film, TV, Advertising, Games) 	15
	Asset Collection & Shot Selection	
	Reviewing Previous Coursework & Projects	
II	• Selecting Best Shots (Modelling, Animation, FX, Compositing)	15
	 Enhancing and Refining Existing Work 	

	Editing & Presentation Techniques				
	• Storytelling (Flow & Narrative)				
III	 Editing Techniques for Showreels (Timing, Pacing, Music Selection) 	15			
	Adding Intro Titles, Shot Breakdowns, and Contact Information				
	 Resolution, Formats, and Upload Guidelines (YouTube, Art- Station) 				
	Receiving Peer & Instructor Feedback (Review Sessions)				
	Final Portfolio Submission & Career Preparation				
	 Final Quality Check – Polishing Shots & Presentation 				
IV	Submitting Final Portfolio for Evaluation	15			
	• Creating an Online Portfolio/Website (Art-Station, Behance,				
	Personal Site)				
	Writing an Effective Resume and Cover Letter for VFX Roles				
	 Preparing for Portfolio Reviews & Interviews 				
	TOTAL	60			

- VFX Artistry: A Visual Tour of How the Studios Create Their Magic by Spencer Drate
- The VES Hand Book of Visual Effects (2nd Edition) by Jeffrey A. Okun & Susan Zwerman

- The VES Handbook of Visual Effects by: Jeffrey A. Okun, Susan Zwerman
- Digital Compositing for Film and Video by: Steve Wright
- The Visual Effects Producer: Understanding the Art and Business by: Charles Finance & Susan Zwerman

	Credit Distribution							
Lecture /Tutorial	Practicu							
NA	60 hrs.	30 hrs. Shoot (10hrs), Pre-Production (preparation – 3hrs, presentation 1hrs), Interacting with animator (1hrs on preparation, 4hrs on presentation), Case Study (5hrs). Post-Production (6hrs)						
	Break up of Experiential learning							
Activity		me required for eparation(hrs.)	Time required for execution (hrs.)	Total Time(hrs.)				
Shoot		NA	10 hrs	10 hrs				
Pre-Production		3 hrs.	1 hrs	4 hrs				
Interacting with animator		NA	1 hrs	5 hrs				
Case Study		4 hrs	5 hrs	5 hrs				
Post-Production		NA	6 hrs	6 hrs				
			Total Hours	30				