

PROGRAMME REGULATIONS & CURRICULUM

2024-27

PRESIDENCY SCHOOL OF DESIGN

B.SC. MULTIMEDIA

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PRESIDENCY SCHOOL OF DESIGN

Program Regulations and Curriculum 2024-2027

Program: B.Sc. Multimedia

Based on Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

(As amended up to the 21st Meeting of the Academic Council held on 6th September 2023. This document supersedes all previous guidelines)

Regulations No.: PU/AC21.21/SOD08/BSM/2022-25

Resolution No. 21 of the 21st Meeting of the Academic Council held on 6th September 2023 and ratified by the Board of Management in its 22nd Meeting held on 2nd November 2023

September -2023

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PART A - PROGRAM REGULATIONS

1. Vision & Mission of the University and the School / Department

1.1 Vision of the University

To be a Value-Driven Global University, excelling beyond peers and creating professionals of integrity and character, having concern and care for society.

1.2 Mission of the University

- Commit to be an innovative and inclusive institution by seeking excellence in teaching, research and knowledge-transfer.
- Pursue Research and Development and its dissemination to the community, at large.
- Create, sustain and apply learning in an interdisciplinary environment with consideration for ethical, ecological and economic aspects of nation building.
- Provide knowledge-based technological support and services to the industry in its growth and development.
- To impart globally-applicable skill-sets to students through flexible course offerings and support industry's requirement and inculcate a spirit of new-venture creation.

1.3 Vision of Presidency School of Design

To become a value-based, Innovation-driven School of Design, transforming students into visionary designers, who shape the world with creative and socially sustainable solutions.

1.4 Mission of Presidency School of Design

- Inspire and train students to be creative Thinkers and Designers.
- Empower students with design knowledge to address social, technical and economic challenges with innovative solutions.
- Sensitize students to embrace lifelong learning in a technology-enabled environment.
- Foster strategic alliances between Society and Academia for Research and its practical application.
- Instill Entrepreneurial and Leadership Skills to address social, environmental and community needs.

2. Preamble to the Program Regulations and Curriculum

a) This is the subset of Academic Regulations and it is to be followed as a requirement for the award of **B.Sc-Multimedia** degree.

- b) The Curriculum is designed to take into the factors listed in the Choice Based Credit System (CBCS) with focus on Social Project Based Learning, Industrial Training, and Internship to enable the students to become eligible and fully equipped for employment in industries, choose higher studies or entrepreneurship.
- c) In exercise of the powers conferred by and in discharge of duties assigned under the relevant provision(s) of the Act, Statutes and Academic Regulations, 2025 of the University, the Academic Council hereby makes the following Regulations.

3. Short Title and Applicability

- a) These Regulations shall be called the Bachelor of Science in Multimedia Degree Program Regulations and Curriculum.
- b) These Regulations are subject to, and pursuant to the Academic Regulations.
- c) These Regulations shall be applicable to the ongoing Bachelor of Science in Multimedia Degree Programs of the 2024-2027 batch, and to all other Bachelor of Science in Multimedia Degree Programs which may be introduced in future.
- d) These Regulations shall supersede all the earlier Bachelor of Science in Multimedia Degree Program Regulations and Curriculum, along with all the amendments thereto.
- e) These Regulations shall come into force from the Academic Year.

4. Definitions

In these Regulations, unless the context otherwise requires:

- a. "Academic Calendar" means the schedule of academic and miscellaneous events as approved by the Vice Chancellor;
- b. "Academic Council" means the Academic Council of the University;
- c. "Academic Regulations" means the Academic Regulations, of the University;
- d. "Academic Term" means a Semester or Summer Term;
- e. "Act" means the Presidency University Act, 2013;
- f. "AICTE" means All India Council for Technical Education;
- g. "Basket" means a group of courses bundled together based on the nature/type of the course;
- h. "BOE" means the Board of Examinations of the University;
- i. "BOG" means the Board of Governors of the University;
- j. "BOM" means the Board of Management of the University;
- k. "BOS" means the Board of Studies of a particular Department/Program of Study of the University;

- "CGPA" means Cumulative Grade Point Average as defined in the Academic Regulations;
- m. "Clause" means the duly numbered Clause, with Sub-Clauses included, if any, of these Regulations;
- n. "COE" means the Controller of Examinations of the University;
- o. "Course In Charge" means the teacher/faculty member responsible for developing and organising the delivery of the Course;
- p. "Course Instructor" means the teacher/faculty member responsible for teaching and evaluation of a Course;
- q. "Course" means a specific subject usually identified by its Course-code and Coursetitle, with specified credits and syllabus/course-description, a set of references, taught by some teacher(s)/course-instructor(s) to a specific class (group of students) during a specific Academic Term;
- r. "Curriculum Structure" means the Curriculum governing a specific Degree Program offered by the University, and, includes the set of Baskets of Courses along with minimum credit requirements to be earned under each basket for a degree/degree with specialization/minor/honours in addition to the relevant details of the Courses and Course catalogues (which describes the Course content and other important information about the Course). Any specific requirements for a particular program may be brought into the Curriculum structure of the specific program and relevant approvals should be taken from the BOS and Academic Council at that time.
- s. "DAC" means the Departmental Academic Committee of a concerned Department/Program of Study of the University;
- t. "Dean" means the Dean / Director of the concerned School;
- u. "Degree Program" includes all Degree Programs;
- v. "Department" means the Department offering the degree Program(s) / Course(s) / School offering the concerned Degree Programs / other Administrative Offices;
- w. "Discipline" means specialization or branch of B.Sc. Multimedia Degree Program;
- x. "HOD" means the Head of the concerned Department;
- y. "Specialization Incharge" means the person who is responsible for each specialization;
- z. "L-T-P-C" means Lecture-Tutorial-Practical-Credit refers to the teaching learning

periods and the credit associated;

- aa. "MOOC" means Massive Open Online Courses;
- bb. "MOU" means the Memorandum of Understanding;
- cc. "NPTEL" means National Program on Technology Enhanced Learning;
- dd. "Parent Department" means the department that offers the Degree Program that a student undergoes;
- ee. "Program Head" means the administrative head of a particular Degree Program/s;
- ff. "Program Regulations" means the Bachelor of Science Multimedia Degree Program Regulations and Curriculum;
- gg. "Program" means the Bachelor of Science Multimedia (B.Sc.) Degree Program;
- hh. "PSOD" means the Presidency School of Design;
- ii. "Registrar" means the Registrar of the University;
- jj. "School" means a constituent institution of the University established for monitoring, supervising and guiding, teaching, training and research activities in broadly related fields of studies;
- kk. "Section" means the duly numbered Section, with Clauses included in that Section, of these Regulations;
- II. "SGPA" means the Semester Grade Point Average as defined in the Academic Regulations;
- mm. "Statutes" means the Statutes of Presidency University;
- nn. "Sub-Clause" means the duly numbered Sub-Clause of these Program Regulations;
- oo. "Summer Term" means an additional Academic Term conducted during the summer break (typically in June-July) for a duration of about eight (08) calendar weeks, with a minimum of thirty (30) University teaching days;
- pp. "SWAYAM" means Study Webs of Active Learning for Young Aspiring Minds.
- qq. "UGC" means University Grant Commission;
- rr. "University" means Presidency University, Bengaluru; and
- ss. "Vice Chancellor" means the Vice Chancellor of the University.

5. Program Description

The Bachelor of Science in Multimedia Program Regulations and Curriculum are subject to, and, pursuant to the Academic Regulations. These Program Regulations shall be applicable to the ongoing Bachelor of Science in Multimedia (B.Sc. - Multimedia) Degree Program of offered by the Presidency School of Design (SOD). 5.1 These Program Regulations shall be applicable to other similar programs, which may be introduced in future.

5.2 These Regulations may evolve and get amended or modified or changed through appropriate approvals from the Academic Council, from time to time, and shall be binding on all concerned.

5.3 The effect of periodic amendments or changes in the Program Regulations, on the students admitted in earlier years, shall be dealt with appropriately and carefully, so as to ensure that those students are not subjected to any unfair situation whatsoever, although they are required to conform to these revised Program Regulations, without any undue favour or considerations

6. Minimum and Maximum Duration

- 6.1 Bachelor of Bachelor of Science in Multimedia is a Three-Year, Full-Time Semester based program. The minimum duration of the B.Sc-Multimedia . Program is three (03) years and each year comprises of two academic Semesters (Odd and Even Semesters) and hence the duration of the B.Sc. Multimedia program is six (06) Semesters.
- 6.2 A student who for whatever reason is not able to complete the Program within the normal period or the minimum duration (number of years) prescribed for the Program, may be allowed a period of two years beyond the normal period to complete the mandatory minimum credits requirement as prescribed by the concerned Program Regulations and Curriculum. In general, the permissible maximum duration (number of years) for completion of Program is 'N' + 2 years, where 'N' stands for the normal or minimum duration (number of years) for completion of the concerned Program as prescribed by the concerned Program Regulations and Curriculum.
- 6.3 The time taken by the student to improve Grades/CGPA, and in case of temporary withdrawal/re-joining (Refer to Clause **Error! Reference source not found.** of Academic Regulations), shall be counted in the permissible maximum duration for completion of a Program.

- 6.4 In exceptional circumstances, such as temporary withdrawal for medical exigencies, where there is a prolonged hospitalization and/or treatment, as certified through hospital/medical records, female students requiring extended maternity break (certified by registered medical practitioner), and, outstanding sportspersons representing the University/State/India requiring extended time to participate in National/International sports events, a further extension of one (01) year may be granted on the approval of the Academic Council.
- 6.5 The enrolment of the student who fails to complete the mandatory requirements for the award of the concerned Degree (refer Section 19.Error! Reference source not found. of Academic Regulations) in the prescribed maximum duration (Sub-Clauses 18.1 and 18.2 of Academic Regulations), shall stand terminated and no Degree shall be awarded.

7 Programme Educational Objectives (PEO)

After three years of successful completion of the program, the graduates shall be able to:

PEO 1: Become a professional in the areas of animation and multimedia.

PEO 2: Become a researcher in the area of creative design thinking and its related applications. PEO 3: Become an Entrepreneur/Consultant/Multimedia Designer.

8. Programme Outcomes (PO) and Programme Specific Outcomes (PSO) 8.1 Programme Outcomes (PO)

- **PO 1** Apply fundamental knowledge of elements and principles of design.
- **PO 2** Practice multidisciplinary design approach working in teams/groups.
- **PO 3** Design processes and systems in multimedia related fields using design thinking aspects.
- PO 4 Identify and solve design-related problems/challenges.
- **PO 5** Evaluate the impact of design solutions at varying levels of systems and contexts.
- **PO 6** Design a system, program, component, or process to meet desired needs within realistic constraints.
- **PO 7** Recognize the need for and an ability to engage in design practices.
- **PO 8** Identify contemporary design issues in multimedia-related areas.
- **PO 9** Apply the design and management principles to execute multidisciplinary projects.
- **PO 10** Apply the techniques, skills and modern design tools necessary for multimedia design practice.
- **PO 11 -** Demonstrate professional and ethical responsibility in design functions.
- **PO 12 -** Interpret and communicate design ideas effectively.

8.2 Programme Specific Outcomes (PSO)

On successful completion of the Program, the students shall be able to:

- 1. Identify, evaluate and apply techniques and tools of multimedia
- 2. Demonstrate ideation, conceptualization and production skills in multimedia design solutions
- 3. Apply creative skills to develop concepts, interfaces and interactive platforms and design programs in multimedia

9. Admission Criteria (As per statutory body)

The University admissions shall be open to all persons irrespective of caste, class, creed, gender or nation. The admission criteria to the B.Sc.- Multimedia Program is listed in the following Sub-Clauses:

- a. An applicant who has successfully completed Pre-University course or Senior Secondary School course (+2) or equivalent such as (11+1), 'A' level in Senior School Leaving Certificate Course with a minimum aggregate of 40% marks, from a recognized university of India or outside or from Senior Secondary Board or equivalent, constituted or recognized by the Union or by the State Government of that Country for the purpose of issue of qualifying certificate on successful completion of the course, may apply for and be admitted into the Program.
- b. Reservation for the SC / ST and other backward classes shall be made in accordance with the directives issued by the Government of Karnataka from time to time.
- c. Admissions are offered to Foreign Nationals and Indians living abroad in accordance with the rules applicable for such admission, issued from time to time, by the Government of India.
- d. Candidates must fulfil the medical standards required for admission as prescribed by the University.
- e. If, at any time after admission, it is found that a candidate had not in fact fulfilled all the requirements stipulated in the offer of admission, in any form whatsoever, including possible misinformation and any other falsification, the Registrar shall report the matter to the Board of Management (BOM), recommending revoking the admission of the candidate.
- f. The decision of the BOM regarding the admissions is final and binding.

10. Transfer of student(s) from another recognized University to the 2nd year

(3rd Semester) of the Program of the University

A student who has completed the 1st Year (i.e., passed in all the Courses / Subjects prescribed for the 1st Year) of the B.Sc- Multimedia Three-Year Degree Program from another recognized University, may be permitted to transfer to the 2nd Year (3rd Semester) of the B.Sc- Multimedia Program of the University as per the rules and guidelines prescribed in the following Sub-Clauses:

- 10.1 The concerned student fulfils the criteria specified in Sub-Clauses 2.3.1, 2.3.2 and 2.3.3.
- 10.2 The student shall submit the Application for Transfer along with a non-refundable Application Fee (as prescribed by the University from time to time) to the University no later than July 10 of the concerned year for admission to the 2nd Year (3rd Semester) B.Sc-Multimedia Program commencing on August 1 on the year concerned.
- 10.3 The student shall submit copies of the respective Marks Cards / Grade Sheets / Certificates along with the Application for Transfer.
- 10.4 The transfer may be provided on the condition that the Courses and Credits completed by the concerned student in the 1st Year of the B.Sc.- Multimedia Degree Program from the concerned University, are declared equivalent and acceptable by the Equivalence Committee constituted by the Vice Chancellor for this purpose. Further, the Equivalence Committee may also prescribe the Courses and Credits the concerned students shall have to mandatorily complete, if admitted to the 2nd Year of the B.Sc.- Multimedia Program of the University.
- 10.5 The Branch / Discipline allotted to the student concerned shall be the decision of the University and binding on the student.

11. Change of Program

A student admitted to a particular Program of the B.Sc.- Multimedia

Program will normally continue studying in that Program till the completion of the program. However, the University reserves the right to provide the option for a change of Program, or not to provide the option for a change of Program at the end of 1st semester of the degree to eligible students in accordance with the rules framed by the University from time to time.

- 11.1 Normally, only those students, who have passed all the Courses prescribed for the 1st Semester of the degree Program and obtained a CGPA of not less than 6.00 at the end of the first Semester, shall be eligible for consideration of a change of program.
- 11.2 Change of Program, if provided, shall be made effective from the commencement of the 2nd Semester of the Degree Program. There shall be no provision for change of Program thereafter under any circumstances whatsoever.
- 11.3 The student(s) provided with the change of program shall fully adhere to and comply with the Program Regulations and Curriculum of the concerned Program, the Fee Policy pertaining to that Program, and, all otherrules pertaining to the changed Program existing at the time.
- 11.4 Change of program once made shall be final and binding on the student. No student shall be permitted, under any circumstances, to refuse the change of program offered.
- 11.5 The eligible student may be allowed a change in Program, strictly in order of inter se merit, subject to the conditions given below:
 - 11.5.1 The actual number of students in the first semester in any particular program to which the transfer is to be made, should not exceed the sanctioned strength by more than 5%, and,
 - 11.5.2 The actual number of students in any program from which transfer is being sought does not fall below 75% of the total sanctioned intake.
 - 11.5.3 The process of change of program shall be completed on the first day of Registration for the 2nd Semester.
- 12 Specific Regulations regarding Assessment and Evaluation (including the Assessment Details of NTCC Courses, Weightages of Continuous Assessment and End Term Examination for various Course Categories)

- **12.1** The academic performance evaluation of a student in a Course shall be according to the University Letter Grading System based on the class performance distribution in the Course.
- **12.2** Academic performance evaluation of every registered student in every Course registered by the student is carried out through various components of Assessments spread across the Semester. The nature of components of Continuous Assessments and the weightage given to each component of Continuous Assessments (refer Clause 12.5 of academic regulations) shall be clearly defined in the Course Plan for every Course, and approved by the DAC.
- 12.3 Format of the End-Term examination shall be specified in the Course Plan.
- **12.4** Grading is the process of rewarding the students for their overall performance in each Course. The University follows the system of Relative Grading with statistical approach to classify the students based on the relative performance of the students registered in the concerned Course except in the following cases:
 - Non-Teaching Credit Courses (NTCC)
 - Courses with a class strength less than 30

Absolute grading method may be adopted, where necessary with prior approval of concerned DAC.

Grading shall be done at the end of the Academic Term by considering the aggregate performance of the student in all components of Assessments prescribed for the Course. Letter Grades (Clause **Error! Reference source not found.** of academic regulations) shall be awarded to a student based on her/his overall performance relative to the class performance distribution in the concerned Course. These Letter Grades not only indicate a qualitative assessment of the student's performance but also carry a quantitative (numeric) equivalent called the Grade Point.

12.5 Assessment Components and Weightage

Table 1: Assessment Components and Weightage for different category of						
Courses						
Nature of Course and Structure	Evaluation	Weightage				
Nature of Course and Structure	Component					
Lecture-based Course	Continuous	50%				
L component in the L-T-P-C Structure is	Assessments	50 /0				
predominant (more than 1)						
(Examples 2-0-0-2, 3-0-0-3, etc.)	End Term	50%				
Except 1-0-0-1 which has a Jury	Examination	50%				
Component						
Lab/Practice-based Course						
P component in the L-T-P-C Structure is	Continuous	100%				
predominant	Assessments					
(Examples: 2-0-4-4, 1-0-4-3, 2-0-2-3, 0-0-4-	13565511161115					
2 Etc.)						
	Guidelines for the	e assessment				
Skill based Courses like Internship,	components for the	various types				
Dissertation / Social Engagement and	of Courses, with r	recommended				
such similar Non-Teaching Credit	weightages, shall be	e specified in				
Courses, where the pedagogy does not	the concerned	Program				
lend itself to a typical L-T-P-C structure	Regulations and C	Curriculum /				
	Course Plans, as applicable.					

The exact weightages of Evaluation Components shall be clearly specified in the concerned PRC and respective Course Plan.

Normally, for Practice/Skill based Courses, without a defined credit structure (L–T–P) [NTCC], but with assigned Credits (as defined in Clause **Error! Reference source not found.** of the Academic Regulations, 2025), the method of evaluation shall be based only on Continuous Assessments. The various components of Continuous Assessments, the distribution of weightage among such components, and the method of evaluation/assessment, shall be as decided and indicated in the Course Plan/PRC. The same shall be approved by the respective DAC.

12.6 Minimum Performance Criteria:

13.3.9 Theory only Course

A student shall satisfy the following minimum performance criteria to be eligible to earn the credits towards the concerned Course:

- a. A student must obtain a minimum of 30% of the total marks/weightage assigned to the End Term Examinations in the concerned Course.
- b. The student must obtain a minimum of 40% of the AGGREGATE of the marks/weightage of the components of Continuous Assessments, Mid Term Examinations and End Term Examinations in the concerned Course.

13.3.9 Integrated/Lab/Practice/Project Based Courses

The student must obtain a minimum of 40% of the AGGREGATE of the marks/weightage of all assessment components in the concerned Course.

- 13.3.9 A student who fails to meet the minimum performance criteria listed above in a Course shall be declared as "Fail" and given "F" Grade in the concerned Course. For theory Courses, the student shall have to reappear in the "Make-Up Examinations" as scheduled by the University in any subsequent semester, or, re-appear in the End Term Examinations of the same Course when it is scheduled at the end of the following Semester or Summer Term, if offered. The marks obtained in the Continuous Assessments (other than the End Term Examination) shall be carried forward and be included in computing the final grade, if the student secures the minimum requirements (as per Clause Error! Reference source not found., Error! Reference source not found. of Academic Regulations in the "Make-Up Examinations" of the concerned Course. Further, the student has an option to re-register for the Course and clear the same in the summer term/ subsequent semester if he/she wishes to do so, provided the Course is offered.
- 12.7 Normally, for Practice/Skill based Courses, without a defined credit structure (L T P), but with assigned Credits, (as defined in Clause 5.2 of the Academic Regulations), the method of evaluation shall be based only on Continuous Assessments. The various components of

Continuous Assessments, the distribution of weightage among such components, and the method of evaluation/assessment shall be prescribed in the concerned Course Handout. There shall be no component of End Term Final Examinations for such Courses.

In case any exception is required for a particular course, where the methods of assessment prescribed in the specific regulations mentioned above in Sub-Clauses 12.5, 12.6 and 12.7 are not suitable/ relevant for assessing the performance in the concerned Course, the DAC shall recommend the appropriate method of assessment for the approval by the BOS.

13 Additional clarifications - Rules and Guidelines for Transfer of Credits from MOOC, etc. – Note: These are covered in Academic Regulations

The University allows students to acquire credits from other Indian or foreign institutions and/or Massive Open Online Course (MOOC) platforms, subject to prior approval. These credits may be transferred and counted toward fulfilling the minimum credit requirements for the award of a degree. The process of transfer of credits is governed by the following rules and guidelines:

- 13.1 The transfer of credits shall be examined and recommended by the Equivalence Committee (Refer Error! Reference source not found. of academic regulations 2025) and approved by the Dean - Academics.
- 13.2 Students may earn credits from other Indian or foreign Universities/Institutions with which the University has an MOU, and that MOU shall have specific provisions, rules and guidelines for transfer of credits. These transferred credits shall be counted towards the minimum credit requirements for the award of the degree.
- 13.3 Students may earn credits by registering for Online Courses offered by Study Web of Active Learning by Young and Aspiring Minds (SWAYAM) and National Program on Technology Enhanced Learning (NPTEL), or other such recognized Bodies/ Universities/Institutions as approved by the concerned BOS and Academic Council from time to time. The concerned School/Parent Department shall publish/include the approved list of Courses and the rules and guidelines governing such transfer of credits of the concerned Program from time to time. The Rules and Guidelines for the transfer of credits specifically from the Online Courses conducted by SWAYAM/ NPTEL/ other approved MOOCs are as stated in the following Sub-Clauses:

- 13.3.1 A student may complete SWAYAM/NPTEL/other approved MOOCs as mentioned in Clause **Error! Reference source not found.** (as per academic regulations) and transfer equivalent credits to partially or fully complete the mandatory credit requirements of Discipline Elective Courses and/or the mandatory credit requirements of Open Elective Courses as prescribed in the concerned Curriculum Structure. However, it is the sole responsibility of the student to complete the mandatory credit requirements of the Discipline Elective Courses and the Open Elective Courses as prescribed by the Curriculum Structure of the concerned Program.
- 13.3.2 SWAYAM/NPTEL/ other approved MOOCs as mentioned in Clause Error! Reference source not found. (as per academic regulations) shall be approved by the concerned Board of Studies and placed (as Annexures) in the concerned PRC.
- 13.3.3 Parent Departments may release a list of SWAYAM/NPTEL/other approved MOOCs for Pre-Registration as per schedule in the Academic Calendar or through University Notification to this effect.
- 13.3.4 Students may Pre-Register for the SWAYAM/NPTEL/other approved MOOCs in the respective Departments and register for the same Courses as per the schedule announced by respective Online Course Offering body/institute/ university.
- 13.3.5 A student shall request for transfer of credits only from such approved Courses as mentioned in Sub-Clause Error! Reference source not found. above.
- 13.3.6 SWAYAM/NPTEL/other approved MOOCs Courses are considered for transfer of credits only if the concerned student has successfully completed the SWAYAM/NPTEL/other approved MOOCs and obtained a certificate of successful/satisfactory completion.
- 13.3.7 A student who has successfully completed the approved SWAYAM/NPTEL/ other approved MOOCs and wants to avail the

provision of transfer of equivalent credits, must submit the original Certificate of Completion, or such similar authorized documents to the HOD concerned, with a written request for the transfer of the equivalent credits. On verification of the Certificates/Documents and approval by the HOD concerned, the Course(s) and equivalent Credits shall forwarded to the COE for processing of results of the concerned Academic Term.

13.3.8 The credit equivalence of the SWAYAM/NPTEL/other approved MOOCs are based on Course durations and/or as recommended by the Course offering body/institute/university. The Credit Equivalence mapped to SWAYAM/ NPTEL approved Courses based on Course durations for transfer of credits is summarised in Table shown below. The Grade will be calculated from the marks received by the Absolute Grading Table Error! Reference source not found.. in the academic regulations.

Table	Table 2: Durations and Credit Equivalence for Transfer of Credits				
from SWAYAM-NPTEL/ other approved MOOC Courses					
S1.	Course Duration	Crodit Equivalor co			
No.	Course Duration	Credit Equivalence			
1	4 Weeks	1 Credit			
2	8 Weeks	2 Credits			
3	12 Weeks	3 Credits			

- **13.3.9** The maximum permissible number of credits that a student may request for credit transfer from MOOCs shall not exceed 20% of the mandatory minimum credit requirements specified by the concerned Program Regulations and Curriculum for the award of the concerned Degree.
- **13.3.9** The University shall not reimburse any fees/expense; a student may incur for the SWAYAM/NPTEL/other approved MOOCs.
- **13.4** The maximum number of credits that can be transferred by a student shall be limited to forty percent (40%) of the mandatory minimum credit requirements specified by the concerned Program Regulations and Curriculum for the

award of the concerned Degree. However, the grades obtained in the Courses transferred from other Institutions/MOOCs, as mentioned in this Section (13.Error! Reference source not found.), shall not be included in the calculation of the CGPA.

14. Structure / Component with Credit Requirements Course Baskets & Minimum Basket wise Credit Requirements

The B.Sc- Multimedia Program Structure (2024-2027) totalling 120 credits. Table 3 summarizes the type of baskets, number of courses under each basket and the associated credits that are mandatorily required for the completion of the Degree.

Table 3: B.Sc. Multimedia 2024-2027: Summary of Mandatory Courses andMinimum Credit Contribution from various Baskets					
S1. No.	Baskets	Credit Contribution			
1	Core Courses	27			
2	Humanities, Social Sciences & Management Science Courses (HS)	5			
3	Skill Enhancement Courses (SEC)	16			
4	Design Studies (DS)	16			
5	Professional Practice (PP) I and II	10			
6	Personal and Professional Skills (PPS)	4			
7	Discipline Electives Courses	33			
8	Multidisciplinary Open Electives	9			
	Total Credits	120 (Minimum)			

15. Minimum Total Credit Requirements of Award of Degree

A minimum of 120 credits is required for the award of a B.Sc.- Multimedia degree.

16. Other Specific Requirements for Award of Degree, if any, as prescribed by the Statutory Bodies

- 16.1 The award of the Degree shall be recommended by the Board of Examinations and approved by the Academic Council and Board of Management of the University.
- 16.2 A student shall be declared to be eligible for the award of the concerned Degree if she/he:
 - a. Fulfilled the Minimum Credit Requirements and the Minimum Credits requirements under various baskets;
 - b. Secure a minimum CGPA of 4.50 in the concerned Program at the end of the Semester/Academic Term in which she/he completes all the requirements for the award of the Degree as specified in Sub-Clause a of Academic Regulations;
 - c. No dues to the University, Departments, Hostels, Library, and any other such Centers/ Departments of the University; and
 - d. No disciplinary action is pending against her/him.

17. Curriculum Structure – Basket Wise Course List (not Semester Wise) List of Courses Tabled – aligned to the Program Structure (Course Code, Course Name, Credit Structure (LTPC), Contact Hours, Course Basket, Type of Skills etc., as applicable).

Table 3.1 : List of Core Courses (CC)						
S.no		Course Name	L	Т	Р	С
1	BSM1014	Pre-Production and Pipelines for Multimedia	2	0	4	4
2	BSM2058	Photography	1	0	4	3
3	BSM2061	Television and Advertisement Production	1	0	4	3
4	BSM2002	Video Editing	1	0	4	3
5	BSM2009	Audio Technology and Production	1	0	4	3
6	BSM3004	Mini Project	0	0	0	5
7	BSM3006	On Job Training/Internship/In- House Live Project	0	0	0	6
	Total No. of Credits					

	Table 3.2 : List of Humanities, Social Sciences & Management Scienc Courses (HS)						
S.N		Course Name	L	Т	Р	C	
0							
1	ENG1003	Communicative English	2	0	0	2	
2	ENG2005	Technical Written Communication	2	0	0	2	
3	CHE1020	Environmental Studies and Sustainable Development	2	0	0	0	
4	KAN1001/KAN2 001	Kali Kannada/Thili Kannada	1	0	0	1	
		Total No. of Credits				5	

	Table	Table 3.3 : List of Skill Enhancement Courses (SEC)					
S.no		Course Name	L	Т	Р	C	
1	BSM1012	Introduction to Multimedia	1	0	4	3	
2	BSM1013	Visual Language & Graphics Design	2	0	4	4	
3	BSM1005	Introduction to Character Sketching	1	0	4	3	
4	BSM1011	Elements and Principles of Design	2	0	4	4	
5	BSM1010	Observation & Ideation	1	0	2	2	
Total No. of Credits					1		
						6	

Table 3.4 : List of Design Studies Courses (DS)							
S.No		Course Name	L	Т	Р	С	
1	BSM2001	Introduction to 2D Animation	1	0	4	3	
2	BSM2060	3D Modelling and Texturing	1	0	4	3	
3	BSM2064	3D Character Animation	1	0	4	3	
4	BSM3037	3D Rigging	2	0	4	4	
5	BSM2066	Digital Compositing	1	0	4	3	
Total No. of Credits					16		

	Table 3.5 : Professional Practice Courses (PP) I and II					
S.No		Course Name	L	Т	Р	С
1	BSM3002	Summer Internship	0	0	0	4
2	BSM3005	Portfolio Development	0	0	0	6
Total No. of Credits					10	

	Table 3.6 : Personal and Professional Skills Courses (PPS)						
S.No		Course Name	L	Т	Р	С	
1	PPS1001	Introduction to Soft Skill	0	0	2	1	
2	PPS1004	Soft Skills for Designers	0	0	2	1	
3	PPS2001	Reasoning and Employment Skills	0	0	2	1	
4	PPS3018	Preparedness for Interview	0	0	2	1	
Total No. of Credits					4		

Table	Table 3.7: List of Discipline Elective Courses							
S.No.	Course Code	Course Name	L	Т	Р	С	Contact Hour	
1	DESXXXX	Discipline Elective I	1	0	4	3	5	
2	DESXXXX	Discipline Elective II	2	0	2	3	4	
3	DESXXXX	Discipline Elective III	2	0	2	3	4	
4	DESXXXX	Discipline Elective IV	1	0	4	3	5	
5	DESXXXX	Discipline Elective V	1	0	4	3	5	
6	DESXXXX	Discipline Elective VI	2	0	2	3	4	
7	DESXXXX	Discipline Elective VII	1	0	4	3	5	
8	DESXXXX	Discipline Elective VIII	1	0	4	3	5	
9	DESXXXX	Discipline Elective IX	2	0	2	3	4	
10	DESXXXX	Discipline Elective X	1	0	4	3	5	
11	DESXXXX	Discipline Elective XI	2	0	2	3	4	
Total No. of Credits 33								

Table	Table 3.8: List of Open Elective Courses										
S.No.	Course Code	Course Name	Ι		Т	Р	С	Contact Hour			
1	XXXXXXX	Open Elective - I	3	3	0	0	3	3			
2	XXXXXXX	Open Elective - II	1		0	4	3	5			
3	XXXXXXX	Open Elective - III	3	3	0	0	3	3			
Total No. of Credits							9				

18. Practical / Skill based Courses – Professional Practice Courses (Internships / Thesis / Dissertation / Capstone Project Work / Portfolio / Mini project)

Practical / Skill based Courses like internship, project work, capstone project, research project / dissertation, and such similar courses, where the pedagogy does not lend itself to a typical L-T-P-C Structure as defined in Clause 5.1 of the Academic Regulations, are simply assigned the number of Credits based on the quantum of work / effort required to fulfil the learning objectives and outcomes prescribed for the concerned Courses. Such courses are referred to as Non-Teaching Credit Courses (NTCC). These Courses are designed to provide students with hands-on experience and skills essential for their professional development. These courses aim to equip students with abilities in problem identification, root cause analysis, problem-solving, innovation, and design thinking through industry exposure and project-based learning. The expected outcomes are first level proficiency in problem solving and design thinking skills to better equip B.Sc. graduates for their professional careers. The method of evaluation and grading for the Practical / Skill based Courses shall be prescribed and approved by the concerned Departmental Academic Committee (refer Annexure A of the Academic Regulations, 2025). The same shall be prescribed in the Course Plan.

18.1 Internship/ Professional Practice

- 18.1.1. The Internship/Professional Practice Program shall be in conducted in accordance with the Internship Policy prescribed by the University from time to time.
- 18.1.2 The selection criteria (minimum CGPA, pass in all Courses as on date, and any other qualifying criteria) as applicable/ stipulated by the concerned Industry/ Company for award of the Internship to a student.
- 18.1.3 The number of Internship/Professional Practice available for the concerned Academic Term. Further, the available number of internships shall be awarded to the students by the University on the basis of merit using the CGPA secured by the student. Provided further, the

student fulfils the criteria, as applicable, specified by the Industry/ Company providing the Internship, as stated in Sub-Clause 18.1.2 above.

- 18.1.4. A student may opt for Internship/Professional Practice in an Industry/Company of her/his choice, subject to the condition that the concerned student takes the responsibility to arrange the Internship on her/his own. Provided further, that the Industry/ Company offering such Internship confirms to the University that the Internship program shall be conducted in accordance with the Program Regulations and Internship Policy of the University.
- 18.1.5. A student selected for an Internship in an Industry/ Company shall adhere to all the rules and guidelines prescribed in the Internship Policy of the University.
- 18.1.6. Students have to report their respective guide every week (online / offline mode depending on the geographical area of their ongoing research) mentioned by the department to update their progress on the concerned project.

18.1.7. Professional Practice –I

Professional Practice -I is a 4 Credit Course. This first level practice-based course is conducted after the 4th Semester of the B.Sc. Multimedia Program, during the summer break (usually June – July), in accordance with the guidelines mentioned above from 18.1.1 to 18.1.6.

A student may undergo an Internship Program for a period of 8 weeks depending on Specilazation in an Industry/ Company,

18.1.8 Professional Practice – II

Professional Practice - II is an intensive practice-based course with 6 Credits offered during the final (3rd) year of the B.Sc. Multimedia Program. Students may register for Professional Practice – II in the 6th Semester of the B.Sc. Multimedia Program, in accordance with the guidelines mentioned below from 18.2 to 18.4

18.2 Project Work

- 18.2.1 A student may do an extensive Project Work in an Industry/ Company/ Research Laboratory or the University Department(s), subject to the following conditions:
- 18.2.2 The Project Work shall be approved by the concerned HOD and be carried out under the guidance of a faculty member.
- 18.2.3 The student may do the Project Work in an Industry/ Company/ Research Laboratory of her/his choice subject to the above-mentioned condition (Sub-Clause 18.2.1). Provided further, the Industry/ Company/ Research Laboratory offering such project work confirms to the University that the Project Work will

be conducted in accordance with the Program Regulations and requirements of the University.

18.2.4 Students have to report their respective guide every week (online / offline mode depending on the geographical area of their ongoing research) mentioned by the department to update their progress on the concerned project.

18.3.1 Capstone Project/Portfolio

A student may undergo a Capstone Project/Portfolio for a period of 12 weeks in an industry / company or academic / research institution in the 6th Semester as applicable, subject to the following conditions:

- **18.3.2** The Capstone Project shall be in conducted in accordance with the Capstone Project/Portfolio Policy prescribed by the University from time to time.
 - 18.3.2.1 The selection criteria (minimum CGPA, pass in all Courses as on date, and any other qualifying criteria) as applicable / stipulated by the concerned Industry / Company or academic / research institution for award of the Capstone Project/Portfolio to a student;
 - 18.3.2.2 The number of Capstone Project/ Portfolio available for the concerned Academic Term. Further, the available number of Capstone Project / Portfolio shall be awarded to the students by the University on the basis of merit using the CGPA secured by the student. Provided further, the student fulfils the criteria, as applicable, specified by the Industry / Company or academic / research institution providing the Capstone Project/ Portfolio, as stated in Sub-Clause 18.3.2 above.
 - 18.3.2.3 A student may opt for Capstone Project/Portfolio in an Industry / Company or academic / research institution of her / his choice, subject to the condition that the concerned student takes the responsibility to arrange the I Capstone Project on her / his own. Provided further, that the Industry / Company or academic / research institution offering such Capstone Project/portfolio confirms to the University that the Capstone Project shall be

conducted in accordance with the Program Regulations and Internship Policy of the University.

- **18.3.2.4** A student selected for a Capstone Project/ Portfolio in an industry / company or academic / research institution shall adhere to all the rules and guidelines prescribed in the Capstone Project Policy of the University.
- **18.3.2.5** Students have to report their respective guide every week (online / offline mode depending on the geographical area of their ongoing research) mentioned by the department to update their progress on the concerned project.

18.4 Research Project / Dissertation

A student may opt to do a Research Project / Dissertation for a period of 12 weeks in an Industry / Company or academic / research institution or the University Department(s) as an equivalence of Capstone Project, subject to the following conditions:

- **18.4.1** The Research Project / Dissertation shall be approved by the concerned HOD and be carried out under the guidance of a faculty member.
- **18.4.2** Students have to report their respective guide every week (online / offline mode depending on the geographical area of their ongoing research) mentioned by the department to update their progress on the concerned project.

The student may do the Research Project / Dissertation in an Industry / Company or academic / research institution of her / his choice subject to the above-mentioned condition (Sub-Clause 18.4.1). Provided further, that the Industry / Company or academic / research institution offering such Research Project / Dissertation confirms to the University that the Research Project / Dissertation work will be conducted in accordance with the Program Regulations and requirements of the University.

Table 3.9: Discipline Electives Courses/Specialization Tracks - Minimum of 33								
cred	its is to be	earned by the student in	a particula	r track.				
S.		Course Name	L	Т	Р	С		
No								
1	BSM 2020	UI/UX Design	1	0	4	3		
2	BSM2012	E Content Development	0	0	4	2		
3	BSM2013	Radio Production	0	0	4	2		
4	BSM2090	Multimedia Databases	3	0	0	3		
5	BSM2015	Social Media Marketing	1	0	4	3		
6	BSM2016	Advertising and public relation	2	0	2	3		
7	BSM 2055	Infographics	0	0	4	3		
8	BSM2017	Interactive Multimedia applications	0	0	4	2		
9	BSM2018	E- Publishing	2	0	2	3		
10	BSM2019	Android Mobile Applications Development	1	0	4	3		
11	BSM2056	Web Application Development	0	0	4	2		
12	BSM3036	Studio Design and Management	2	0	0	2		
13	BSM2091	Web Design and Development	1	0	4	3		
14	BSM3035	Video Codes and Standards	3	0	0	3		
15	BSM2065	3D Lighting and Rendering	2	0	2	3		
16	BSM3039	AI for Multimedia	1	0	4	3		
17	BSM2005	Desktop Publishing	0	0	4	2		
18	BSM2010	Colour theory	3	0	0	3		
19	BSM2011	3D Lighting and Camera Lab	0	0	4	2		
20	BSM2024	Digital Cinematography	2	0	4	4		
21	BSM2025	TV Program Production	1	0	4	3		
22	BSM2026	Film Production	2	0	2	3		
23	BSM3015	3D Video & Graphics	3	0	0	3		
24	BSM2027	Television Systems	3	0	0	3		
25	BSM2028	Principles of Journalism	3	0	0	3		
26	BSM2029	Corporate Communications	3	0	0	3		
27	BSM2030	Communication Theories and Models	3	0	0	3		
28	BSM2031	Digital Colour Correction	2	0	2	3		
29	BSM2032	Studio Management	3	0	0	3		
30	DES1008	Materials, Media, Tools & Techniques	2	0	4	4		
31	DES1014	Introduction to Design Ethnography	2	0	2	3		
32	DES1015	Basics of Technical Drawing	2	0	2	3		
33	BSM2004	History and pipeline of Animation	2	0	0	2		

19. List of Elective Courses under various Specialisations / Stream Basket

34	BSM3017	Game Development	1	0	4	3
35	BSM3018	Virtual Sculpting Lab	0	0	4	2
36	BSM3019	Character Animation	0	0	4	2
37	BSM3020	Advanced rigging	0	0	2	1
38	BSM3021	Production for animation	1	0	4	3
39	BSM3022	Augmented and Virtual Reality	2	0	2	3
40	BSM3023	Motion Capture	3	0	0	3
41	BSM3024	Advanced Animation	0	0	4	2
42	BSM3025	Anatomy Study	3	0	0	3
43	BSM1009	Design Thinking and Communication	2	0	2	3
44	BSM2014	Principles of Animation	1	0	4	3
45	BSM2056	Stop motion Animation	0	0	2	1
46	BSM2043	Game Mechanics and Dynamics	3	0	0	3
47	BSM2047	Assets for Game Production	0	0	4	2
48	BSM1006	Introduction to Immersive Technologies	1	0	4	3
49	BSM2040	360 Video Production	0	0	4	2
50	BSM2051	Game Testing and Analysis	3	0	0	3
51	BSM2052	Game Interface and Level Design	3	0	0	3
52	BSM3033	Concept Development and Creativity	3	0	0	3
53	BSM3015	Design Thinking and Communication	2	0	4	4
54	BSM3016	Video streaming and AR technologies	3	0	0	3
55	BSM2034	Media Management and Entrepreneurship	3	0	0	3
56	BSM2068	Game Ideation and Ethics	2	0	2	3
57	BSM3040	3D Game Art and Design	1	0	4	3

20. Open Electives

Open Electives are the courses offered by any Department/School of the University. The primary objective of offering Open Electives is to provide interdisciplinary/ transdisciplinary learning experiences. The outcome is a graduate with a fair exposure to disciplines beyond the chosen Branch in the B.Des Program.

Open Electives offered by any Department/School of the University are listed in the Course Structure under the Open Elective category and offered to students of any Department including the parent Department/School.

The Course details and method of evaluation shall be clearly prescribed in the concerned Course Handout.

20.1 List of Open Electives to be offered by the School / Department (Separately for ODD and EVEN Semesters.

Table 3.10: Multidisciplinary Open Electives – Minimum of 9 credits is to be							
earned by the student.							
S1. No.	Course Code	Course Name	L	Т	Р	C	
Chemistry Basket							
1	CHE1003	Fundamentals of Sensors	3		0	3	
2	CHE1004	Smart materials for IOT	3		0	3	
3	CHE1005	Computational Chemistry	2		0	2	
4	CHE1006	Introduction to Nano technology	3		0	3	
5	CHE1007	Biodegradable electronics	2		0	2	
6	CHE1008	Energy and Sustainability	2		0	2	
7	CHE1009	3D printing with Polymers	2		0	2	
8	CHE1010	Bioinformatics and Healthcare IT	2		0	2	
9	CHE1011	Chemical and Petrochemical catalysts	3		0	3	
10	CHE1012	Introduction to Composite materials	2		0	2	
11	CHE1013	Chemistry for Engineers	3		0	3	
12	CHE1014	Surface and Coatings technology	3		0	3	
13	CHE1015	Waste to Fuels	2		0	2	
14	CHE1016	Forensic Science	3		0	3	
Civil Engi	neering Bask	et	•				
1	CIV1001	Disaster mitigation and management	3		0	3	
2	CIV1002	Environment Science and Disaster Management	3		0	3	
3	CIV2001	Sustainability Concepts in Engineering	3		0	3	

4	CIV2002	Occupational Health and Safety	3	0	3
5	CIV2003	Sustainable Materials and Green Buildings	3	0	3
6	CIV2004	Integrated Project Management	3	0	3
7	CIV2005	Environmental Impact Assessment	3	0	3
8	CIV2006	Infrastructure Systems for Smart Cities	3	0	3
9	CIV2044	Geospatial Applications for Engineers	2	2	3
10	CIV2045	Environmental Meteorology	3	0	3
11	CIV3046	Project Problem Based Learning	3	0	3
12	CIV3059	Sustainability for Professional Practice	3	0	3
		Commerce Basket			
1	COM2001	Introduction to Human Resource Management	2	0	2
2	COM2002	Finance for non- finance	2	0	2
3	COM2003	Contemporary Management	2	0	2
4	COM2004	Introduction to Banking	2	0	2
5	COM2005	Introduction to Insurance	2	0	2
6	COM2006	Fundamentals of Management	2	0	2
7	COM2007	Basics of Accounting	3	0	3
Compute	r Science Bas	sket			
1	CSE2002	Programming in Java	2	2	3
2	CSE2003	Social Network Analytics	3	0	3
3	CSE2004	Python Application Programming	2	2	3
4	CSE2005	Web design fundamentals	2	2	3
5	CSE3111	Artificial Intelligence: Search Methods For Problem Solving	3	0	3

6	CSE3112	Privacy And Security In Online Social Media	3		0	3
7	CSE3113	Computational Complexity	3		0	3
8	CSE3114	Deep Learning for Computer Vision	3		0	3
9	CSE3115	Learning Analytics Tools	3		0	3
Design Ba	isket					
1	DES1001	Sketching and Painting	0	0	2	1
2	DES1002	Innovation and Creativity	2	0	0	2
3	DES1003	Serviceability of Fashion Products	1	0	2	2
4	DES1004	Choices in Virtual Fashion	1	0	2	2
5	DES1005	Fashion Lifestyle and Product Diversity	1	0	2	2
6	DES1006	Colour in Everyday Life	1	0	2	2
7	DES 1121	Introduction to UX Design	1	0	2	2
8	DES 1122	Introduction to Jewellery Making	1	0	2	2
9	DES 1123	Packaging Design	1	0	2	2
10	DES 1124	Spatial Stories	1	0	2	2
11	DES 1125	Polymer Clay	1	0	2	2
12	DES1135	Design Ethics and Sustainability	3	0	0	3
13	DES1146	Introduction to Design Thinking	1	0	0	1
14	DES2001	Design Thinking	3	0	0	3
15	DES 2080	Art of Design Language	3	0	0	3
16	DES 2081	Brand Building in Design	3	0	0	3
17	DES 2085	Web Design Techniques	3	0	0	3
18	DES 2089	3D for Designers	1	0	4	3
19	DES 2090	Creative Thinking for Professionals	3	0	0	3
20	DES 2091	Idea Formulation	3	0	0	3
21	DES2124	Shaping Thematic Environments	3	0	0	3

22	DES2125	Adaptive Reuse & Recycle	3	0	0	3
23	DES2138	Service Design	3	0	0	3
24	DES2139	AI for Design Innovation	3	0	0	3
25	DES2140	Project Management Essentials for Designers	3	0	0	3
26	DES2141	Digital Marketing Strategies for Designers	3	0	0	3
27	DES2142	3D & UI Design Tools (Blender/Figma)	3	0	0	3
28	DES2143	Design Communication Essentials	3	0	0	3
29	DES2144	Material Sourcing for Designers	3	0	0	3
30	DES2145	Designing for Healthcare	3	0	0	3
31	DES2146	Designing for XR (AR/VR)	3	0	0	3
32	DES2147	Coding Fundamentals: Python for Designers	3	0	0	3
33	DES2148	Design Forecasting	3	0	0	3
34	DES2149	Design Journalism	3	0	0	3
35	DES2150	Visual Presentations	2	0	2	3
36	DES2151	Visual Perception in Everyday Life	2	0	2	3
37	DES2152	Fashion Product Development	3	0	0	3
38	DES2153	Jewellery Design Essentials	2	0	2	3
39	DES2158	3D Aesthetics and Visualisation	1	0	4	3
40	DES2159	Intellectual Property Rights	3	0	0	3
41	DES2126	Introduction to Film Making	0	0	0	3
Electrical	and Electror	nics Engineering Basket				
1	EEE1002	IoT based Smart Building Technology	3	0	0	3
2	EEE1003	Basic Circuit Analysis	3	0	0	3
3	EEE1004	Fundamentals of Industrial Automation	3	0	0	3

4	EEE1005	Electric Vehicles & Battery Technology	3	0	0	3
5	EEE1006	Smart Sensors for Engineering Applications	3	0	0	3
		Electronics and Communication Engineering Basket				
1	ECE1003	Fundamentals of Electronics	3	0	0	3
2	ECE1004	Microprocessor based systems	3	0	0	3
3	ECE1005	Journey of Communication Systems	3	0	0	3
4	ECE3089	Artificial Neural Networks	3	0	0	3
5	ECE3090	Digital System Design using VERILOG	3	0	0	3
6	ECE3091	Mathematical Physics	3	0	0	3
7	ECE3092	Photonic Integrated Circuits	3	0	0	3
8	ECE3093	Machine learning for Music Information Retrieval	3	0	0	3
9	ECE3094	Video Processing and Computer Vision	3	0	0	3
10	ECE3095	Blockchain and Cryptocurrency Technologies	3	0	0	3
11	ECE3096	Natural Language Processing	3	0	0	3
12	ECE3097	Smart Electronics in Agriculture	3	0	0	3
13	ECE3098	Environment Monitoring Systems	3	0	0	3
14	ECE3099	Modern Wireless Communication with 5G	3	0	0	3
15	ECE3100	Underwater Communication	3	0	0	3
16	ECE3101	Printed Circuit Board Design	3	0	0	3
17	ECE3102	Consumer Electronics	3	0	0	3

18	ECE3103	Product Design of Electronic Equipment	3	0	0	3
19	ECE3104	Vehicle to Vehicle Communication	3	0	0	3
20	ECE3105	Wavelets and Filter Banks	3	0	0	3
21	ECE3106	Introduction to Data Analytics	3	0	0	3
22	ECE3107	Machine Vision for Robotics	3	0	0	3
		English Basket				
1	ENG1008	Indian Literature	2	0	0	2
2	ENG1009	Reading Advertisement	3	0	0	3
3	ENG1010	Verbal Aptitude for Placement	2	0	2	3
4	ENG1011	English for Career Development	3	0	0	3
5	ENG1012	Gender and Society in India	2	0	0	2
6	ENG1013	Indian English Drama	3	0	0	3
7	ENG1014	Logic and Art of Negotiation	2	0	2	3
8	ENG1015	Professional CommunicationSkills for Engineers	1	0	0	1
9	FRL1002	Basic French	2	0	0	2
Fitness ar	nd Wellness	Basket				
1	DSA2001	Spirituality for Health	2	0	0	2
2	DSA2002	Yoga for Health	2	0	0	2
3	DSA2003	Stress Management and Well Being	2	0	0	2
Kannada	Basket					
1	KAN1003	Kannada Kaipidi	3	0	0	3
2	KAN2003	Pradharshana Kale	1	0	2	2
3	KAN2004	Sahithya Vimarshe	2	0	0	2
4	KAN2005	Anuvadha Kala Sahithya	3	0	0	3
5	KAN2006	Vichara Manthana	3	0	0	3
6	KAN2007	Katha Sahithya Sampada	3	0	0	3
7	KAN2008	Ranga Pradarshana Kala	3	0	0	3
Foreign La	anguage Bas	ket				

1	FRL1004	Introduction of French Language	2	0	0	2
2	FRL1005	Fundamentals of French	2	0	0	2
3	FRL1009	Mandarin Chinese for Beginners	3	0	0	3
4	FLR1002	Basic French	1	0	0	2
		Law Basket				
1	LAW1001	Introduction to Sociology	2	0	0	2
2	LAW2001	Indian Heritage and Culture	2	0	0	2
3	LAW2002	Introduction to Law of Succession	2	0	0	2
4	LAW2003	Introduction to Company Law	2	0	0	2
5	LAW2004	Introduction to Contracts	2	0	0	2
6	LAW2005	Introduction to Copy Rights Law	2	0	0	2
7	LAW2006	Introduction to Criminal Law	2	0	0	2
8	LAW2007	Introduction to Insurance Law	2	0	0	2
9	LAW2008	Introduction to Labour Law	2	0	0	2
10	LAW2009	Introduction to Law of Marriages	2	0	0	2
11	LAW2010	Introduction to Patent Law	2	0	0	2
12	LAW2011	Introduction to Personal Income Tax	2	0	0	2
13	LAW2012	Introduction to Real Estate Law	2	0	0	2
14	LAW2013	Introduction to Trademark Law	2	0	0	2
15	LAW2014	Introduction to Competition Law	3	0	0	3
16	LAW2015	Cyber Law	3	0	0	3
17	LAW2016	Law on Sexual Harrassment	2	0	0	2
18	LAW2017	Media Laws and Ethics	2	0	0	2
		Mathematics Basket				
1	MAT2008	Mathematical Reasoning	3	0	0	3
2	MAT2014	Advanced Business	3	0	0	З
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2	1017(12014	Mathematics	5		0	
3	MAT2041	Functions of Complex Variables	3	0	0	3
4	MAT2042	Probability and Random Processes	3	0	0	3
5	MAT2043	Elements of Number Theory	3	0	0	3
6	MAT2044	Mathematical Modelling and Applications	3	0	0	3
Mechanic	al Engineeri	ng Basket				
1	MEC1001	Fundamentals of Automobile Engineering	3	0	0	3
2	MEC1002	Introduction to Matlab and Simulink	3	0	0	3
3	MEC1003	Engineering Drawing	1	0	4	3
4	MEC2001	Renewable Energy Systems	3	0	0	3
5	MEC2002	Operations Research & Management	3	0	0	3
6	MEC2003	Supply Chain Management	3	0	0	3
7	MEC2004	Six Sigma for Professionals	3	0	0	3
8	MEC2005	Fundamentals of Aerospace Engineering	3	0	0	3
9	MEC2006	Safety Engineering	3	0	0	3
10	MEC2007	Additive Manufacturing	3	0	0	3
11	MEC3069	Engineering Optimisation	3	0	0	3
12	MEC3070	Electronics Waste Management	3	0	0	3
13	MEC3071	Hybrid Electric Vehicle Design	3	0	0	3
14	MEC3072	Thermal Management of Electronic Appliances	3	0	0	3
15	MEC3200	Sustainable Technologies and Practices	3	0	0	3
16	MEC3201	Industry 4.0	3	0	0	3

Petroleur	n Engineerin	g Basket				
1	PET1005	Geology for Engineers	2	0	0	2
2	PET1006	Overview of Energy Industry	2	0	0	2
3	PET1007	Introduction to Energy Trading and Future Options	2	0	0	2
4	PET1008	Sustainable Energy Management	2	0	0	2
5	PET2026	Introduction to Computational Fluids Dynamics	3	0	0	3
6	PET2028	Polymer Science and Technology	3	0	0	3
7	PET2031	Overview of Material Science	3	0	0	3
8	PET2032	Petroleum Economics	3	0	0	3
		Physics Basket		0		
9	PHY1003	Mechanics and Physics of Materials	3	0	0	3
10	PHY1004	Astronomy	3	0	0	3
11	PHY1005	Game Physics	2	0	2	3
12	PHY1006	Statistical Mechanics	2	0	0	2
13	PHY1007	Physics of Nanomaterials	3	0	0	3
14	PHY1008	Adventures in nanoworld	2	0	0	2
15	PHY2001	Medical Physics	2	0	0	2
16	PHY2002	Sensor Physics	1	0	2	2
17	PHY2003	Computational Physics	1	0	2	2
18	PHY2004	Laser Physics	3	0	0	3
19	PHY2005	Science and Technology of Energy	3	0	0	3
20	PHY2009	Essentials of Physics	2	0	0	2
		Management Basket		0		
1	MGT1001	Introduction to Psychology	3	0	0	3
2	MGT1002	Business Intelligence	3	0	0	3
3	MGT1003	NGO Management	3	0	0	3
4	MGT1004	Essentials of Leadership	3	0	0	3
5	MGT1005	Cross Cultural Communication	3	0	0	3
6	MGT2001	Business Analytics	3	0	0	3

7	MGT2002	Organizational Behaviour	3	0	0	3
8	MGT2003	Competitive Intelligence	3	0	0	3
9	MGT2004	Development of Enterprises	3	0	0	3
10	MGT2005	Economics and Cost Estimation	3	0	0	3
11	MGT2006	Decision Making Under Uncertainty	3	0	0	3
12	MGT2007	Digital Entrepreneurship	3	0	0	3
13	MGT2008	Econometrics for Managers	3	0	0	3
14	MGT2009	Management Consulting	3	0	0	3
15	MGT2010	Managing People and Performance	3	0	0	3
16	MGT2011	Personal Finance	3	0	0	3
17	MGT2012	E Business for Management	3	0	0	3
18	MGT2013	Project Management	3	0	0	3
19	MGT2014	Project Finance	3	0	0	3
20	MGT2015	Engineering Economics	3	0	0	3
21	MGT2016	Business of Entertainment	3	0	0	3
22	MGT2017	Principles of Management	3	0	0	3
23	MGT2018	Professional and Business Ethics	3	0	0	3
24	MGT2019	Sales Techniques	3	0	0	3
25	MGT2020	Marketing for Engineers	3	0	0	3
26	MGT2021	Finance for Engineers	3	0	0	3
27	MGT2022	Customer Relationship Management	3	0	0	3
28	MGT2023	People Management	3	0	0	3
		Media Studies Specific OE Basket		0		
1	BCA2011	Web Design Development	1	0	4	3
2	MBA2017	Principles of Management	3	0	3	3
		Media Studies Basket		0		

1	BAJ3050	Corporate Filmmaking and Film Business	0	0	4	2
2	BAJ3051	Digital Photography	2	0	2	3
3	BAJ3055	Introduction to News Anchoring and News Management	0	0	2	1
Research	URE Basket					
1	URE2001	University Research Experience	-	0	-	3
2	URE2002	University Research Experience	-	0	-	0

*Open Electives courses offered by other schools in a semester and as approved by the BOS will be added to the above list and will be made available for the students for Pre-Registration.

21. List of MOOC (NPTEL) Courses

Sl. No.	Course ID	Course Name	Duration
		Web-designing and multimedia Technology By Dr. B.	
1		Yogameena	
1		https://onlinecourses.swayam2.ac.in/ntr25_ed64/preview	
			12 Weeks

21.1 NPTEL - Discipline Elective Courses for B.Sc. Multimedia

21.2 NPTEL - Open Elective Courses for B. Sc. Multimedia

SI.	Course ID	Course Name	Duration
110.			
1	noc25-de12	Introduction to Graphic Design	8 Weeks
2	noc25-		
2	mg15	Business Statistics	12 Weeks
3	noc25-		
	mg06	AI in Marketing	12 Weeks
4	noc25-		
	mg31	International Business	12 Weeks
5	noc25-		
_	mg62	Supply Chain Digitization	12 Weeks
6	noc25-me70	Robotics: Basics and Selected Advanced Concepts	12 Weeks

22. Recommended Semester Wise Course Structure / Flow including the Programme / Discipline Elective Paths / Options

SEMESTER-WISE COURSE BREAK-UP

			1				-
SI. No.	Course Code	Course Name	L	Т	Ρ	С	Basket
Semest er 1						23	
1	BSM1012	Introduction to Multimedia	1	0	4	3	Skill Enhancement Courses (SEC)
2	BSM1013	Visual Language & Graphics Design	2	0	4	4	Skill Enhancement Courses (SEC)
3	BSM1014	Pre-Production and Pipelines for Multimedia	2	0	4	4	Core (Professional) Course (CC)
4	BSM1005	Introduction to Character Sketching	1	0	4	3	Skill Enhancement Courses (SEC)
5	BSM1011	Elements and Principles of Design	2	0	4	4	Skill Enhancement Courses (SEC)
6	BSM1010	Observation & Ideation	1	0	2	2	Skill Enhancement Courses (SEC)
7	ENG1003	Communicative English	2	0	0	2	Humanities
8	PPS1001	Introduction to Soft Skill	0	0	2	1	PPS
Semest er 2						19	
1	BSM2001	Introduction to 2D Animation	1	0	4	3	Design Studies (DS)
2	BSM2058	Photography	1	0	4	3	Core (Professional) Course (CC)
3	BSMXXXX	Discipline Elective-I	1	0	4	3	Discipline Elective
4	BSMXXXX	Discipline Elective-II	2	0	2	3	Discipline Elective
5	BSMXXXX	Discipline Elective-III	2	0	2	3	Discipline Elective
6	ENG2005	Technical Written Communication	2	0	0	2	Humanities
7	CHE1020	Environmental Studies and Sustainable Development	2	0	0	0	Humanities
8	PPS1004	Soft Skills for Designers	0	0	2	1	PPS
9	KAN1001/KA N2001	Kali Kannada/Thili Kannada	1	0	0	1	Humanities
Semest er 3						19	
1	BSM2060	3D Modelling and Texturing	1	0	4	3	Design Studies (DS)
2	BSM2061	Television and Advertisement Production	1	0	4	3	Core (Professional) Course (CC)
3	BSMXXXX	Discipline Elective-IV	1	0	4	3	Discipline Elective
4	BSMXXXX	Discipline Elective-V	1	0	4	3	Discipline Elective
5	BSMXXXX	Discipline Elective-VI	2	0	2	3	Discipline Elective
6	PPS2001	Reasoning and Employment Skills	0	0	2	1	PPS

7	BSMXXXX	Discipline Elective-VII	1	0	4	3	Discipline Elective
Semest er 4						22	
1	BSMXXXX	Discipline Elective-VIII	1	0	4	3	Discipline Elective
2	BSM2064	3D Character Animation	1	0	4	3	Design Studies (DS)
3	BSM3037	3D Rigging	2	0	4	4	Design Studies (DS)
4	xxxxxx	Open Elective - I	3	0	0	3	Multidisciplinary Open Electives
5	BSMXXXX	Discipline Elective IX	2	0	2	3	Discipline Elective
6	BSMXXXX	Discipline Elective X	1	0	4	3	Discipline Elective
7	BSM2002	Video Editing	1	0	4	3	Core (Professional) Course (CC)
Semest er 5						25	
1	BSM2009	Audio Technology and Production	1	0	4	3	Core (Professional) Course (CC)
2	BSMXXXX	Discipline Elective-XI	2	0	2	3	Discipline Elective
3	BSM2066	Digital Compositing	1	0	4	3	Design Studies (DS)
4	XXXXXXX	Open Elective - II	1	0	4	3	Multidisciplinary Open Electives
5	PPS3018	Preparedness for Interview	0	0	2	1	PPS
6	BSM3002	Summer Internship	0	0	0	4	Professional Practice 1 and 2
7	XXXXXXX	Open Elective III	3	0	0	3	Multidisciplinary Open Electives
8	BSM3004	Mini Project	0	0	0	5	Core (Professional) Course (CC)
Semest er 6						12	
1	BSM3006	On Job Training/Internship/In- House Live Project	0	0	0	6	Core (Professional) Course (CC)
2	BSM3005	Portfolio Development	0	0	0	6	Professional Practice 1 and 2
		Grand Total				12 0	

23. Course Catalogues

BSM1012: Introduction to Multimedia

Course Code:	Course Title: Introduction to		1	0	4	3
BSM1012	Multimedia Type of Course: 1] School Core	L-T- P-C				

		2] Practical						
	Integrated							
Version No.	1.0				1			
Course Pre-requisites	Nil							
Anti-requisites	NIL							
Course Description	This cou fundame multime with the multime enhance students practical creating	rse provides an in-d entals of multimed dia components and latest technologies. dia, the role of art dia. Emphasis is plac user experiences a for diverse application assignments and pro- and analyzing multim	epth in ia. Stu tools, The cou and cra ced on cross d ions in ojects, nedia co	itroductic idents w gaining l urse cover aft in mu how mul how mul lifferent i their futu students ontent	on to vill nanc rs w Itime time indu ure o will	o the explor ds-on ritten edia, c edia co stries, career devel	basics experi and v and d ontent prep s. Thr op ski	and rious ence erbal igital t can aring ough lls in
Course Objective	The cour Multime Multime	se's objective is to far dia Model and a dia Fundamentals Ex	miliarize ttain perient	e learners Skill Dev ial Learni	s wit velo ng t	h the c pmen t echnic	concer t thr Jues.	ots of ough
Course Outcomes	On succ able to Theory Practical 2. 3.	essful Completion of Component: 1. Understand the cor I component: Produce good visual e Develop script and s	of this oncept of explanation	course st f different tory video pard for v	ude t Mu os ai vario	nts sha Itimec nd pre- bus	all be dia Mc sentat	idel's
Course Content:	Graphic and Dig	communication chan Communication,2I ital Photography.	nnels D and 3	D anima	tion	s, Vid	leo ed	iting
Module 1	Written and Verbal Multimedia	Assignment Comparative report Documentation					9 H	ours

	Topics: Introduction to Multime	dia - Definition a	and Components of N	/lultim	edia, History and Evolution of
	Multimedia, Applications	s of Multimedia.	Written Multimedia	- Text	in Multimedia, Typography
	and Text Design, Writing	for Multimedia:	Best Practices. Verba	al Mu	timedia -Voice and Narration
	in Multimedia, Scriptwrit	ting for Multime	dia, Techniques for Ef	ffectiv	e Oral Communication
Mod	lule 2	Art and Craft in Multimedia	Assignment Comparative report Documentation		9 Hours
	Topics:				
	Visual Elements in	Multimedia-	Basics of Graphic	e Des	sign, Color Theory and Its
	Application in Multime	edia, Use of Im	ages and Graphics.	Aud	io Elements in Multimedia-
	Basics of Sound Desig	gn, Music and	Effects in Multime	dia, A	udio Recording and Editing
	Techniques. Animation	on and Moti	on Graphics-Princ	ciples	of Animation, Tools and
	Techniques for Creatin	g Animations,	Integration of Anim	ation	in Multimedia Projects
Mod	lule 3	Digital Multimedia	Assignment Documentation		9 Hours
	Topics:		·		
	Digital Photography	and Imaging-	Basics of Digital	Phot	ography, Image Editing and
	Manipulation, Use of	Photography i	n Multimedia- Vid	leo P	roduction- Basics of Video
	Shooting and Editing,	Storyboarding	and Planning, Int	egrati	ion of Video in Multimedia
	Projects, Web, and In	teractive Medi	a-Basics of Web D	Desigr	n, Interactive Multimedia and
	User Experience, Tools	s for Creating In	nteractive Content		

Level 1:	
1: Create a Digital Preser	ntation
2: Create Progressive St	op Motion Animation.
3: Develop Script for Rad	lio Jingle/ Advertisement
4: Produce a 2D Tradition	nal Animation
5: Create a Basic 3D Ball	Bounce Animation
6: Produce a Video Adve	rtisement (Focus on Cinematography and Editing)
Level-2:	
1: Create a Photo Album	1
2: Create a mini animati	on telling a small story
Targeted Application &	Tools that can be used:
and managing multime Word and Google Doc Audacity and Adobe A multimedia, Adobe Pho digital art. In digital mu crucial for video editin modeling and animatio multimedia projects an	dia content. For written and verbal multimedia, tools like Microsoft s are widely used for document creation and collaboration, while udition are popular for audio editing. For art and craft in otoshop and Illustrator are industry standards for graphic design and ultimedia, tools such as Adobe Premiere Pro and Final Cut Pro are g, while platforms like Unity and Blender are invaluable for 3D on. These tools empower students to produce professional-quality ad gain hands-on experience in their respective fields
Text Books	the second se
1. Tay Vaughan, I	Vultimedia: Making it Work (with CD), 9 ⁴⁴ Edition, McGraw Hill Education
2.Woody Woodh	all, Audio Production and Post Production, Jones& Bartlett Learning
Reference1. Ranjan Parekh, Pr2. RicWallace, Live S3. Drew O. McDanie Production, 20084. Scott Kelby, The D5. Richard Williams,	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press The Animator's Survival Kit, 2001, Farrar, Straus and Giroux
Reference1. Ranjan Parekh, Pr2. RicWallace, Live S3. Drew O. McDanie Production, 20084. Scott Kelby, The D5. Richard Williams,Topics relevant to "S	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press The Animator's Survival Kit, 2001, Farrar, Straus and Giroux KILL DEVELOPMENT SKILLS":
Reference1. Ranjan Parekh, Pr2. RicWallace, Live S3. Drew O. McDanie Production, 20084. Scott Kelby, The D5. Richard Williams,Topics relevant to "SI Multimedia Objects, NDevelopment" thread	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press The Animator's Survival Kit, 2001, Farrar, Straus and Giroux KILL DEVELOPMENT SKILLS": Iultimedia in business and work for developing "Skill b Experiential Learning Techniques. This is attained through
Reference1. Ranjan Parekh, Pr2. RicWallace, Live S3. Drew O. McDanie Production, 20084. Scott Kelby, The D5. Richard Williams,Topics relevant to "SI Multimedia Objects, NDevelopment" through motion capture assessment	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press The Animator's Survival Kit, 2001, Farrar, Straus and Giroux KILL DEVELOPMENT SKILLS": Iultimedia in business and work for developing "Skill h Experiential Learning Techniques. This is attained through nent components mentioned in course handout
Reference1. Ranjan Parekh, Pr2. RicWallace, Live S3. Drew O. McDanie Production, 20084. Scott Kelby, The D5. Richard Williams,Topics relevant to "SI Multimedia Objects, M Development" through motion capture assessCatalogue prepared by	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press <u>The Animator's Survival Kit, 2001, Farrar, Straus and Giroux</u> KILL DEVELOPMENT SKILLS'': Iultimedia in business and work for developing "Skill h Experiential Learning Techniques. This is attained through nent components mentioned in course handout. Mr. Prakash.KP
Reference1. Ranjan Parekh, Pr2. RicWallace, Live S3. Drew O. McDanie Production, 20084. Scott Kelby, The D5. Richard Williams,Topics relevant to "SI Multimedia Objects, M Development" through motion capture assessCatalogue prepared by	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press The Animator's Survival Kit, 2001, Farrar, Straus and Giroux KILL DEVELOPMENT SKILLS": Iultimedia in business and work for developing "Skill h Experiential Learning Techniques. This is attained through nent components mentioned in course handout. Mr. Prakash.KP Assistant Professor, Multimedia (SOD)
Reference1. Ranjan Parekh, Pr2. RicWallace, Live S3. Drew O. McDanie Production, 20084. Scott Kelby, The D5. Richard Williams,Topics relevant to "SI Multimedia Objects, M Development" through motion capture assessCatalogue prepared byRecommended by the	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press The Animator's Survival Kit, 2001, Farrar, Straus and Giroux KILL DEVELOPMENT SKILLS": Iultimedia in business and work for developing "Skill h Experiential Learning Techniques. This is attained through nent components mentioned in course handout. Mr. Prakash.KP Assistant Professor, Multimedia (SOD) 10 th Board of Studies held on 4 th of July 2024
Reference 1. Ranjan Parekh, Pr 2. RicWallace, Live S 3. Drew O. McDanie Production, 2008 4. Scott Kelby, The D 5. Richard Williams, Topics relevant to "SI Multimedia Objects, M Development" through motion capture assessm Catalogue prepared by Recommended by the Board of Studies on	inciples of Multimedia, 2 nd Edition, McGraw Hill Education, 2013. ound Basics, 2012, CreateSpace Independent Publishing Platform I, Rick C. Shriver, Kenneth Ray Collins - Fundamentals of Audio , Pearson/A&B Digital Photography Book, 2006, Peachpit Press The Animator's Survival Kit, 2001, Farrar, Straus and Giroux KILL DEVELOPMENT SKILLS'': Iultimedia in business and work for developing "Skill h Experiential Learning Techniques. This is attained through nent components mentioned in course handout. Mr. Prakash.KP Assistant Professor, Multimedia (SOD) 10 th Board of Studies held on 4 th of July 2024

BSM1013 Visual Language & Graphics Design

Course Code: BSM1013	Course Title: Vis Language & Gra Type of Course: Core Integrated	sual phics Design 1] School 2]	L-T-P-C	2	0	4	4		
Version	1.0	1.0							
Course Pre- requisites	Nil								
Anti- requisites	NIL								
Course Description	Ability to use design thinking strategies in an iterative design process. Exploring composition, typography, and photo manipulation techniques. Crafting logos, branding elements, and professional portfolios. This course equips graduating students with an overall understanding of the Visual Language and equips them with the design thinking approach to implement the learning into designing communication and brand identity elements in graphic editing software's. Preparing								
Course	On successful completion of the course the students shall be able to:								
Outcomes	Theory Component:								
	1. Recogniz design p	1. Recognize design principles, design process, theory, and contemporary design practices							
	Practical Component:								
	 Demonstrate proficiency in identified technical skills, understanding the process of creating, analysing, and evaluating graphic design solutions. Produce graphics designs for brands and companies Analyse and Experiment between the various outputs. 								
Course	The objective of the course is to familiarize the learners with the concepts of Visual								
Objective	Language and Graphics Design and attain <u>Skill Development</u> of student by using								
Course	Experiential Learning techniques.								
Content:	Storytelling, Branding & Identity Design, Professional Portfolio & Design Practices								
Module 1	Design Foundations & Visual Communication	Assignment		2	20 Hours				

• Topics:

 \circ

• The Building Blocks of Visual Language:

Semiotics: Explore the relationship between signs, symbols, and their meaning.

• Visual Elements: Analyse the use of line, shape, color, texture, space, and value in design.

• Design Principles: Understand how balance, contrast, hierarchy, rhythm, emphasis, and unity shape visual communication.

• The Power of Perception:

- Gestalt Theory: Learn how the human brain perceives and interprets visual information.
- Visual Hierarchy: Master the art of directing viewers' attention within a design.
- Color Psychology: Explore the impact of color on emotions and user behavior.
- Cultural and Emotional Sense in Visual Language

• Applying Visual Language in Design:

• Typography Fundamentals: Understand typographic elements (font, weight, size, spacing) and their influence on meaning.

• Design Styles & Movements: Analyze the visual characteristics of various design styles (e.g., minimalism, swiss style).

• Visual Communication Analysis:

• Deconstructing Designs: Analyze existing designs (advertisements, websites, packaging) to identify their visual elements, principles, and communication goals.

 \circ Critiquing Visuals: Develop skills to critique design work constructively based on visual language principles.

• Case Studies: Explore how successful brands utilize visual language to build brand identity and achieve marketing objectives.

Module 2	Mastering Design Techniques & Visual Storytelling	Assignments	15 Hours
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• Topics:

- Introduction to Photo editing software: Navigate the workspace and explore essential tools for design tasks (selections, layers, adjustments, masking).
- Advanced Photoshop Techniques: Explore layer functionalities (styles, blending modes), advanced text manipulation for typography, and photo manipulation/editing techniques (selections, adjustments, filters).
- Visual Storytelling: Learn how to use design elements and principles to create compelling narratives within visual compositions.
- Design Application: Apply design skills to create visually impactful layouts for different purposes (posters, infographics, social media graphics).

Module 3	odule 3 Branding & Identity Design		15 hours		
• Top	oics:				
	 Design Portfol design skills at Mockup Techt 	io Development and creative processingues: Creating	t: Learning how to curate a strong design portfolio showcasing cess. g mockups in Photoshop to present design concepts in a		
 Mockup Techniques. Creating mockups in Photoshop to present design concepts in a professional context. Design Presentation Skills: Developing skills for presenting design work effectively to clients or collaborators. 					

 Introduction to Design Trends: Understanding current design trends and their application in creative projects. Design Ethics & Copyright: Learning about ethical considerations in design (copyright, plagiarism) and best practices. Freelancing & Professional Collaboration: Exploring freelance design opportunities and strategies for effective collaboration with clients and other designers. 							
Module 4	Professional Portfolio & Design Practices	Assignment	10 hours				
• Тор	 Topics: Professional Practices: Explore design ethics, copyright, patents, freelance opportunities, and collaboration strategies with clients and other designers. Design Trends & Future Considerations: Understand current design trends and ethical considerations for applying them. 						
List of Practic Projects Level 1: 1. C 2. V e d 3. T d 4. R 5. A t Level 2: 6. A e 7. P f 8. In 0 9. S f 10. E a 11. E h p 12. I F c	cal Tasks: Create a mood board f <i>isual Analysis:</i> Analy elements (line, shape, design. Typography Experime different fonts, sizes, of edesign/Sketch an e and communication f analyze a well-know he designers. Advanced Composition editing software techr Photo Manipulation f ilters) to achieve a sp nfographic Design: De design principles to prisocial Media Graphic fictional brand. Apply Brand Identity Develor a fictional company, for Brand Consistency Ar now they maintain v backaging). Design Portfolio Cre Photoshop to showca course.	that evokes a sp vze a well-known color, typograp entation: Design colors, and text e existing website clarity. on with Effects: niques (layer style esign an infograp esent information consign principles opment: Design collowing a provio- nalysis: Analyze isual consistence reation: Build a ase your design	ecific emotion or theme using visual elements and principles. In advertisement or poster. Identify and explain the use of design hy) and design principles (balance, contrast, hierarchy) within the a poster with a single word as the main focus. Experiment with effects to create visual interest and hierarchy. The or advertisement, focusing on improving its visual hierarchy aign and explain the visual language strategies employed by Create a visually compelling composition using advanced graphic es, blending modes, text effects). (Ex. Concept arts, landscapes) a photograph and manipulate it (using selections, adjustments, e or mood (Ex. vintage, surreal). ohic on a chosen topic. Use data visualization techniques and clear on in a visually consistent and engaging content. a logo and brand identity elements (color palette, typography) for ded design brief. branding elements from existing successful companies. Evaluate y across various media formats (website, social media, product a visually engaging online or physical portfolio using skills, creative process, and best design work from the				

•	Targeted Application & Tools that can be used: This curriculum ensures that students
	gain a solid foundation in visual language and use digital graphic and photo manipulation
	software like Adobe Photoshop, progressing from basic skills to the creation of all the
	Brand Identity Elements, posters, banners, magazines, photo editing, compositions,
	creating web graphics, and more by the end of the semester image editing, manipulation,
	and raster graphics creation.

Text Books -

- 1. Dabner, D. (2018). Graphic Design School: A Foundation Course for Visual Communication (3rd ed.). Laurence King Publishing.
- 2. Evening, M. (2020). Photoshop for Designers: The Ultimate Guide to Mastering Photoshop Techniques (7th ed.). John Wiley & Sons.
- 3. Lupton, E. (2014). Thinking with Type: A Critical Guide for Designers, Writers, Artists, and Everyone Else (3rd ed.). Princeton Architectural Press.
- 4. Williams, R. (2015). The Non-Designer's Design Book: The Graphic Design School You Never Had (4th ed.). Peachpit Press.
- 5. Saethre, D. (2014). Photoshop Masking & Compositing: A Complete Guide to Advanced Techniques (2nd ed.). Focal Press.
- 6. Connie Malamed-Visual Language for Designers: Principles for Creating Graphics that People Understand
- 7. Ellen Lupton "Graphic Design: The New Basics: Second Edition, Revised and Expanded"

Princeton Architectural Press; Revised and updated edition

- 8. Gail Anderson. Gaile Anderson (Author), Steven Heller (Author) THE GRAPHIC DESIGN IDEA BOOK
- 9. John Evans. Katrin Straub (Author) Adobe Photoshop Elements 2018 Classroom in a Book
- 10. Ernest Woodruff. Adobe Photoshop for Beginners 2021: A Complete Step by Step Pictorial Guide for Beginners with Tips & Tricks to Learn and Master All New Features in Adobe ... Adobe Photoshop 2021 User Guide Book 1)

References:

- 1. https://www.youtube.com/watch?v=GHIl0gCeHjk **Series** for Graphics and Visual Design Course Introduction | 00 | The Language of Design: Form and Meaning | Beginner | English | UI Course
- 2. <u>https://www.youtube.com/watch?v=yt7qDQZree0&list=PLW-zSkCnZ-gB0RgkvF0NaN-</u>
- <u>dreQS1DsxB&index=1</u> Advanced Photoshop Tutorials series in Hindi
- 3. <u>https://www.youtube.com/watch?v=DPSs1IxiDsM&list=PL9pkETrdJ0rb-BsDHwE0gmsj0duEXqbQ3</u> Advanced Photoshop Tutorials series in English

Topics relevant to "EMPLOYABILITY SKILLS":

Brand Identity Elements, Letter Heads, Designing Brochures, Visiting Cards, Posters, Mock ups etc., for developing **Employability Skills** through **Experiential Learning Techniques.** This is attained through assignment components mentioned in course handout.

Catalogue	Mr. Vijay Kumar D
prepared by	Asst. Prof. Multimedia
	SOD
Recommended	10 th Board of Studies held on 4 th of July 2024
by the Board of	
Studies on	
Date of	24 th AC dated 03.08.2024
Approval by the	
Academic	
Council	

BSM1014 - Preproduction and Pipelines for Multimedia

Course Code: BSM1014	Course Title: for Multimed Type of Cour	Pre-production and l ia se: 1] School Core 2] Integrated	Pipelines	L-T- P-C	2	0	4	4
Version No.	1.0							
Course Pre- requisites	Nil							
Anti-requisites	NIL							
Course Description	This course offe and filmmaking various stages t also equips s storyboarding characters to lif visual world of a	This course offers a comprehensive introduction to the pre-production phase of animation and filmmaking. Students will gain a deep understanding of the pipeline process, the various stages that work together to bring a project from concept to screen. The course also equips students with the essential skills including story and scriptwriting, storyboarding for visualization, and character visualization techniques that bring characters to life. Also, students will explore the role of the art department in creating the						
Course	On s	uccessful completion of	of the cours	e the st	udents	shall b	е	
	 Theory Component Demonstrate the essential stages of the animation pre-production process. Practical Component Develop skills in concept development, storyboarding, character design, and set Design. Practice Collaborating effectively in team settings and managing assets for the Production 							
Course Objective	The objective of the course is to familiarize the learners with the concepts of Pre- Production and attain Skill Development of student by using Experiential Learning techniques.							
Course Content:	Screen Writing, Concept Art and Story Sketches, Story Board.							
Module 1	e 1 Screen Writing Concept Art and Storyboard Assignment Documentation 20 Hours							
Topics: Anatomy of a Script, Script Elements and Scene Heading, Action, Characters. Dialogue - Parenthetical - Extension - Transition - Shots - Page Breaking, Finer Points, Dual Dialogue								

	Reading Scripts from Popular - Anatomy of a Storyboard - Advantages of Storyboard in							
	Animatic	on - I humbhail Io	or Storyboard	1				
Modul	e 2	Development and Cast Selection	Assignment Documentation		20 Hours			
	Topics:	1	I					
	Research - Principles of character design- Creating character rough Sketches - Characterization - Selection of Cast People and considerations - Developing character backstories and motivations - Working with actors during pre-production - Rehearsals - Budgeting and Scheduling							
Modul	e 3	Production Pipelines and Art Department	Assignment Documentation		20 Hours			
	Topics:	· •						
	Different types of pipelines (2D, 3D, hybrid) - Overview of the production process (pre-production, production, post-production) - Role of the pipeline in production - Introduction to the Art Department - Basics of set design and construction - Understanding the art department's role in the production pipeline – Workflow in Art department							
	List of Pra	ctical Tasks:						
	Project							
	Level 1:							
	• W	/riting a script and	d narration (classroom p	resenta	tion)			
	• C	omparative study	and presentation of Pro	ductior	ns involved in Animation and Film making			
	• C	haracter design w	vith suitable pros with ju	stificati	on			
	Level 2:							
	• St	oryboard, Scene	wise presentation with p	proper s	sketches for a Scene			
	• Targeted Application & Tools that can be used: This curriculum ensures that students gain a solid foundation in pre-production and pipelines in multimedia. It requires a diverse toolbox. Storyboarding software like Toon Boom Storyboard or free options like Pencil2D help visualize ideas. Project management platforms like Trello or Asana keep teams organized. Scriptwriting tools like Final Draft or Celtx ensure cohesive narratives.							
	Text Books							
	1. The Animation Bible: A Practical Guide to the Art of Animating from Flipbooks to							
	Flash [Paperback], Maureen Furniss							
	2. D	rawn to Life: 20) Golden Years of Disr	ney Ma	ster Classes: Volume 1: The Walt			
	S	tanchfield Lectu	res [Paperback], Walt	Stanch	field			

Referen	ices								
4.	4. Facial Expressions: A Visual Reference for Artists, Mark Simon, Publisher: Watson-								
	Guptill, ISBN-10: 0823016714, ISBN-13: 978-082301671								
5.	The Visual Display of Quantitative Information, 2nd edition by Edward R. Tufte								
	(Hardcover - May 2001)								
6.	Renee Dunlop, Production Pipeline Fundamentals for Film and Games - Focal								
	Press								
7.	Dream Worlds: Production Design for Animation by Hans Bacher and Don Hahn								
Topics Script v through assessn	relevant to "SKILL DEVELOPMENT SKILLS": vriting, Story board Sketching, Camera Shots and Angles for developing "Skill Development" "Experiential Learning" Techniques. This is attained through Creation of Storyboard ment components mentioned in course handout.								
Catalogue	Mr. Melwin Samuel								
prepared by	Assistant Professor, Multimedia (SOD)								
Recommended 10th Board of Studies held on 4th of July 2024									
by the Board									
Date of 24 th AC dated 03 08 2024									
Approval by									
the Academic									
Council									

Course Code:	Course Title: Introduction to Character 1 0 4 3						
BSM1005							
			L-T-				
			P-C				
	Type of Cou	rse: 1] School Core					
		2] Integrated					
		_					
Version No.	2.0						
Course Pre-	Nil						
requisites							
Anti-requisites	NIL						
Course	This course eq	uips students with the fou	ndational skills for	sketo	ching	g comp	elling
Description	characters. Ex	olore character anatomy	form, and gestur	e. Un	ders	standir	ng the
-	usage of basic	stationary items to deve	elop the skills of d	iffere	ent s	hades	using
	nencils humar	anatomy to develop the	characters Learn	to tra	nsla	te emr	ntions
	and personali	ty through facial evore	sions and body	langi	1300 1200	Mac	toring
	various skotch	ing tochniques to bring ch	aractors to life all	while	age hui	ilding a	
	various sketching techniques to bring characters to life, all while building a solid						
<u> </u>	Toundation for further character development.						
Course	The course's objective is to develop the right foundation for character sketching						
Objective	for student Skill Development by using Experiential Learning techniques.						
Course	On successful	Completion of this cou	urca studants shal	lahl	a to		
Outcomes	Theory Com	nonent.	inse students sha	1 401	5 10		
Outcomes	1 Unde	rstand the art of pencil	drawing and ske	tchin	σ		
	Practical Component:						
	2 Explore the dynamic feature of using pencils						
	3. Illustrate and present any Characters with dimensional value and						
	realistic feel.						
Course	Introduction						
Content:	Functionality & management application						
	runctionancy & management application,						
		. • . 1					
Module 1	Introduction	Assignment	11	Hou	rs		
Tonica		Documentation					
1 opics:	theory of line	or normanting active	viou contour l'	a dua		a tor	aand
scale of drawing	, meory of line	ar perspective, setup a	view, contour lin	a \mathbf{P}_{α}	win	g, ton	e and
Techniques Und	lerstanding ling	sketching in multimed	ra anu storytenin	g-ва	SIC I	Uraw1	ng
Anatomy Basics	Proportions of	o, shapes, and forms, P	n body Drawing	awin r baai	g ex	uman	- 55
figures and posses	- Toportions al	turing motion and fluid	ity in skatchas	y Dasi	e III eko	illiall tching	r l
evercises to deve	lon gestural ab	ille	ity in sketches, C	UICK	SKC	cining	,
exercises to develop gestural skills							

BSM1005: Introduction to Character Sketching

Module 2	Intuitive perspective, Developing Character Design	Assignment Documentation	12 Hours

Topics:

Dynamic views, concept sketching, narrative sketching, shooting boards, Exploring Different Styles-Introduction to various character design styles (realistic, cartoon, stylized),Experimenting with different drawing styles, Facial Expressions and Emotions-Drawing facial features and expressions, Conveying emotions through character sketches, Designing Unique Characters-Creating original characters from imagination, Developing character backstories and personalities- Clothing and Accessories-Designing costumes and accessories for characters, Understanding how clothing affects character design

Modulo 2	Character	Assignment	0 Hours
would 5	Sketching	Documentation	5 Hours

Topics:

Introduction to Human Anatomy, Facial Expressions, Gesture study of Human and

Animals.

Dynamic Poses and Action- Drawing characters in dynamic poses, Understanding action lines and movement, Inking and Shading Techniques-Introduction to inking character sketches, Adding shading and textures for depth, Digital Character Sketching, Overview of digital sketching tools (Adobe Photoshop, Procreate), Techniques for digital character creation, Final Project and Critique-Creating a complete character design portfolio, Peer reviews and constructive feedback, Final presentation of character sketches

List of Practical Tasks:

Level 1:

- 1. Lines, strokes & shapes with freehand
- 2. Form and shape
- 3: Live sketching
- 4: Gesture drawing
- 5: Perspective drawing
- 6: City Scape drawing

Level 2:

- 7: Male & female anatomy
- 8: Facial Expressions

Targeted Application & Tools that can be used:

A number of programs and resources are essential for creating & perfecting character designs in the introduction to Character Sketching course. The foundation for fundamental sketching methods & creativity is laid by conventional equipment like pencils, pens, & sketchpads. Programs like Corel painter & Adobe Photoshop provide sophisticated brushes & customization features for digital sketching, making the process more enjoyable. With the help if these resources, students can try out various approaches & styles, making it easier to create intricate & compelling character sketches.

Text Books

- 1. Freehand and Digital Drawing techniques for Artists & Designers Jorge Paricio
- 2. Hartley, C. (2012). Drawing Cutting Edge Characters: From Sketch to Screen. Watson-Guptill Publications.
- 3. Keefe, D. (2009). How to Draw People: Everything You Need to Know to Create Realistic Figures. Walter Foster Jr.
- 4. Lesnes, J. (2011). Character Design from the Ground Up: Creating Characters with Personality. Watson-Guptill Publications.
- 5. Loomis, A. (2014). Figure Drawing for All It's Worth. Dover Publications. (Original work published 1943)
- 6. Watts, D. (2013). The Art of Drawing People. Watson-Guptill Publications

References

- 1. Freehand and Digital Drawing techniques for Artists & Designers Jorge Paricio
- 2. https://youtu.be/ewMksAbgdBI Sketching Basics & Materials
- 3. <u>https://youtu.be/-WR-FyUQc6I</u> Shade with Pencils
- 4. <u>https://youtu.be/5W3Wj-a_7Vo</u> Drawing faces

Topics relevant to "SKILL DEVELOPMENT SKILLS":

Theory of Lines, strokes & shapes with freehand, Gesture drawing, Concept Sketching for developing "Skill Development" through "Experiential Learning" Techniques. This is attained through assignment components mentioned in course handout.

Catalogue	Melwin Samuel, Vijay Kumar. D & Prakash. KP
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	6th Board of Studies held on 26th of July 2022
by the Board	
of Studies on	
Date of	18 th Academic Council meeting held on 3 rd August 2022
Approval by	
the Academic	
Council	

Course Code:	Course Title:	Elements and Princ	iples of		2	0	4	4	
BSM1011		Design							
		Design		L-					
				<u>Т</u> -					
	Type of Cours	a. 11 Sahaal Cara		P-C					
	1 ype of Cours	2] Integrated							
		2] Integrateu							
Version No.	1.0							1	
Course Pre-	Nil								
requisites									
Anti-requisites	NIL								
Course									
Description	The course's ob	jective is to provide an	understand	ding of	the	basi	cs of	visual	
	design to the s	tudent. Introduce stud	ents to the	e stand	lards	, pr	actices	s and	
	techniques of	cinematography. Devel	op studen	its' abi	ility	to	manip	ulate	
	cameras to achi	eve specific stylistic and	d dramatic	effects	. The	e co	urse e	quips	
	complex pattern	is. The students will lea	rn and und	derstan	d the	e Ele	ement	s and	
	principles of Des	sign principles including	visual hier	archy.	The s	stud	ents w	vill be	
	able to develop	an interest in the resear	ch and dev	elopme	ent of	mc	ore effe	ective	
	visual communic	cation designs which in	the long r	un will	trar	Islat	e into	their	
Course	The objective of	applications in the design industry.							
Objective	Experiential Lea	Experiential Learning techniques							
Course	On successful (Completion of this cou	rse studen	te chall	lahl	e to			
Outcomes	Theory Comp	onent:	ise studen	to shan		2 10			
outcomes	4. Identify	y and define various	terminologi	es ass	ociat	ed	with	visual	
	desian.		-						
	Practical Compo	nont							
	Practical component:								
	5. Examin	e the different approach	es towards	visual	aesig	n ei	ement	s.	
	6. Design	various complex and me	eta patterns						
Course	Fundam	nentals of Design, El	ements of	Visua	al D	esig	gn, D	esign	
Content:	Thinkin	g, Understanding Aest	thetics						
Module 1	Fundamentals	Assignment		15	IIar	100			
Module 1	of Design	Documentation		15	Hou	ГS			
Topics:									
The Visu	al Design Basics								
Terminol	ogies used in Vis	sual Design							
Visual El	ements								
	nding Aesthetics								
Allalysis Evolorati	on of Meta-patta	rns							
Creations	of Meta-pattern	S							
Creations	s of Meta-patterns								

BSM1011 - Elements and Principles of Design

Module 2	Elements of Visual Design	Assignment Documentation	14 Hours				
Topics:							
Visual Principles	S						
Analysis of Visu	al Concepts						
Tessellations and	d their variations						
Basic Shapes							
Shadows and Lig	ght						
The process of a	dding aesthetics to	o your design.					
Introduction to c	olors	1	1				
Module 3	Design Thinking	Assignment Documentation	16 Hours				
Topics:							
Meaning and usa	age of colors						
Color Wheel							
Introduction to 7	Typography						
Body texts, Font	s & Text sizes						
Composition and	l Framing						
Using Space, lin	es, shapes to Cons	struct					
Symbols and the	eir usage in the Sco	ene					
Introduction to F	Perspectives						
One-point Persp	ective						
Two-point Persp	pective						
Different types of	of Angles.						
Mise-en-scene							
Creation of Entire	Scene						
List of Practical Ta	asks: Level 1						
1: Design Thinking Principles							
2: Setting up the 0	2: Setting up the Observation process						
3: Create a Desigr	n using Basic eleme	nts					
4: Sketch in Differ	ent Perspectives of	City Scape					
			2 0				

5: How to Tell a Story

List of Practical Tasks: Level 2

6: Create a set of Scenarios for the story

7: Typography in design

8: Create a Small poster for awareness program using design elements

Assignment:

Create a Design using basic elements like textures, lines, shapes etc., in a creative way.

Targeted Application & Tools that can be used:

A number of essential programs and tools are necessary for comprehending and utilizing fundamental design concepts in the course Elements & Principles of Design. Color, line, shape, texture, and form manipulation require the use of the Adobe Creative Suite, in particular Photoshop, Illustrator, and InDesign. Canva is an approachable platform for novices, providing easily navigable design templates and instruments to hone composition and arrangement skills. With their powerful features for producing and enhancing visual designs and prototypes, Sketch and Figma are useful tools for digital and interface design. With the aid of these resources, students can effectively investigate and apply basic design principles to a variety of projects and media.

Text Books

- Tim Brown, Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation, HarperCollins Publishers Ltd.
- o IdrisMootee, Design Thinking for Strategic Innovation, 2013, John Wiley & Sons Inc

References

- 5. Brenda Laurel Design Research methods and perspectives MIT press 2003
- 6. Terwiesch, C. & Ulrich, K.T., 2009. Innovation Tournaments: creating and identifying Exceptional Opportunities, Harvard business press.
- Ulrich & Eppinger, Product Design and Development, 3rd Edition, McGraw Hill, 2004
- Stuart Pugh, Total Design: Integrated Methods for Successful Product Engineering, BjarkiHallgrimsson, Prototyping and model making for product design, 2012, Laurence King Publishing Ltd
- 9. Kevin Henry, Drawing for Product designers, 2012, Laurence King Publishing Ltd

Topics relevant to "SKILL DEVELOPMENT SKILLS": Typography, Composition, Framing of Subjects for developing <u>"Skill Development"</u> through <u>Experiential Learning</u> Techniques. This is attained through assignment components mentioned in course handout.

Catalogue	Mr. Melwin Samuel
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	4 th Board of Studies held on 10th of July 2021
by the Board	
of Studies on	
Date of	16 th Academic Council Meeting held on 23 rd October 2021
Approval by	
the Academic	
Council	

Course Code: BSM1010	Course Title: Observation & Ideation Type of Course: 1] Program Core 2] Integrated	L-T- P-C	1	0	2	2				
Version No.	1.0	 C								
Course Pre- requisites	NIL									
Anti-requisites	NIL									
Course Description	To increase the Observation Skills of the Students and increase the logical thinking behind each observation This course will help students to develop keen observation skills in different levels of the given situation. Adaptation and conversion of those to ideas and documenting them for further research. This course is designed to be very observant not only the physical attributes but also the inner of the given object or situation and the idea behind its existence.									
Course Objective	The objective of the course is to familiarize the learners with the concepts of Observation and Ideation and attain <u>Skill Development</u> of student by using <u>Experiential Learning</u> techniques.									
Course Outcomes	On successful completion of the course the students shall be able to: Theory Component: 1. Relate the given design structure with its initial idea. Practical Component: 2. Recognize the need of the given design structure in the society and its usage to its full potential. 3. Apply the cultural background from where the design structure initially originated.									
Course Content:	Identification of Design, <u>Sustainability design Practice</u> , its features, Analysis of the Design Production.	<u>Reprod</u>	uctio	<u>n</u> (of Desig	<u>gn and</u>				

Module 1	Identification of Design	Observation report	Illustrations/ photographs Visual Journal	10 Hours		
 Topics: 1. Recognition of basic designs around us natural or manmade. Identification of texture colour size and other physical attributes of the design. 2. Recognition of social importance of the given Design Structure. Review the impact of the physical design structure in the society. 3. Generating ideas and solutions through sessions such as <u>Sketching</u>, <u>Prototyping</u>, <u>Brainstorming</u>, 						
Module 2	Sustainability design Practice, Reproduction of Design and its features	Documentation	Info-graphical development Visual Journal	15 Hours		
Topics:1.Introduction to Design Thinking and Its Stages.2.Introduction to Modes and Stages of Ideations3.Conceptualizing design starting from Worst Possible Ideas and Improving to the State to acceptance inthe Source State Stat						
Module 3	Analysis of the Design Production	Assignment Documentation	VisualJournalDevelopmentofDocumentationoftheindividual design	20 Hours		
Topics:1.Character required for the design Ideation2.Using the technique of empathy mapping for Design Thinking3.Hierarchy Needs and table of Design thinking and Design Creation4.Development of ideation for a given Design structure						

List of Practical Tasks: Level1
Project No. 1: Recognition and Observation
Level 1: Recognizing the Characters of the Design and Documenting the same through Phrases and Words and
Photographs
Level 2: Identification of the Characteristics and copying through Sketching the same with Perspective
Level 3: Transcending the Design to other styles of Sketches, experimenting with different colour medium
Project No. 2:
Level 1: Exploring the stages in a given Design Structure
Level 2: Exploded View of the given Design or an object
Level 3: Improvisation on the design for personalization.
List of Practical Tasks: Level2
Project No. 3:
Level 1: Analyzing the design Structure through its character Study.
Level 2: Applying the Empathy mapping for the design where ever needed and improvising the idea.
Level 3: <u>Development of new Parameters to create Improvised designs and exploring the designs.</u>
Targeted Application & Tools that can be used
Evernote and Notion are crucial for recording and organizing observations and ideas, while Miro and MURAL
help with brainstorming and visual cooperation in observation and ideation. Quick concept visualization is made
possible by sketching applications like Procreate and Adobe Fresco, while idea development and organization
are facilitated by mind mapping programs like Mind Meister. With the help of these apps, students can more
successfully observe, record, and hone their original ideas, leading to creative design solutions.
Text Books
1. <u>Steal Like an Artist – Austin Kleon, February 2012.</u>
2. The Birth and Death of Ideas Hardcover – Import, 11 May 2004 by Douglas – Graham (Author) Thomas – T. Bachmann (Author)
References
1. FIRE: How Fast, Inexpensive, Restrained, and Elegant Methods Ignite
Innovation Hardcover – April 29, 2014.
2 https://www.youtuba.com/watch?y=sayb05gEN0g Design Observations
2. <u>https://www.youtube.com/watch?v=scvb05qEivos</u> Design Observations

Topics relevant to "SKILL DEVELOPMENT":

<u>Character required for the design Ideation</u>, Generating ideas and solutions through sessions such as <u>Sketching</u>, <u>Prototyping</u>, <u>Brainstorming for</u> <u>Skill Development</u> through <u>Experiential Learning</u> techniques. This is attained through assessment component mentioned in course handout.

Catalogue prepared by <u>Dr. Saranya Balan</u> <u>Asst. Professor</u> <u>Multimedia, School of Design</u>				
Recommended by the Board of Studies on	8 th Board of Studies held on 7 th of July 2023			
Date of Approval by the Academic Council	21 st AC Meeting held on 6 th SEPT 2023			

BSM 2001 Introduction to 2D Animation										
Course Code: BSM2001	Course Title: Animation Type of Cour Integrated	Introduction to 2D rse: Program Core,		L-T- P-C	1	0	4	3		
Version No.	3.0									
Course Pre- requisites	NA	JA								
Anti-requisites	NIL	IL								
Course Description	Basics of Animation is a foundation course in animation. This course covers 12 animation principles, which will serve as a foundation for animation education. In this course, the focus is on 2d classical animation, flip-book animation, stop motion, and 2d animation using different techniques to impart fundamentals of movement in the animation. This course will also give an overview of different animation techniques in various software like Adobe After Effects, adobe animate and etc									
Course Objective	The objective of Basics of Anima Learning techn	The objective of the course is to familiarize the learners with the concepts of Basics of Animation and Tools and attain Employability through Experiential Learning techniques.								
Course Outcomes	 Upon successful completion of the course, the students shall be able to: 1. Describe the principles of animation, including squash and stretch, anticipation, and timing. Practical Component Explain how the principles of animation contribute to creating realistic and visually engaging animations. Practice simple animations that demonstrate the principles of squash and stretch anticipation and timing. 									
Course Content:										
Module 1	Introduction of Animation	Assignment Demonstration and Participative Learning. Documentation	Examp Demo	oles/ /Assignn	nents		10 H	ours		
Topics: 1. 12 Principles of Squash and Stra Anticipation Staging Straight Ahead Follow Through Slow In and Slo Arcs Secondary Acti Timing Exaggeration Solid Drawing	f Animation etch Action and Pos h and Overlapp ow Out on	se to Pose ing Action								

• Appeal				
Module 2	Study of Animation	Assignment Demonstration and Participative Learning. Documentation	Examples/ Demo/Assignments	10 Hours
Topics:				1
Study of Zoetro	pe			
Stop Motion Ar	nimation			
Flipbook Anima	ation	1	1	
Module 3	Introduction to Software	Assignment Demonstration and Participative Learning. Documentation	Examples/ Demo/Assignments	25 Hours
Introduction to	2D Animation			
Walk Cycle				
Jump Cycle				
List of Practical Tasks:				
Project No. 1				
Level 1: Create an anin	nation for each pr	inciple of animation.		. .
Level 2 : Create an anii	mation for each p	rinciple of animation using	g the Reyframe animation tec	chnique.
Level 1 . Understand th	e classical way of	animation and create a zo	petrone card in 2d animation	
Level 2: Create a video	o clip of an animal	walk with the technique	mentioned above.	•
Project No. 3:		····· ··· ··· ··· ··· ··· ··· ··· ···		
Level 1: Understand th	e walk cycle.			
Level 2: Create a video	o clip of a human	walking.		
Targeted Applications	& Tools that can l	be used:		
1. Create a video clip	with an animal fro	om the learning of level 1		
2. Tools used Adobe H	hotoshop, 2d Ani	mation Software		
12 Principles of Animat	SNILL DEVEL	OFINIEINI SKILLS":	imation Software for Skill D	velonment
through Experiential Le	arning Technique	es. This is attained through	the assessment component	mentioned
in the course handout.				
References				
Alan Becker Channel				
Cartoon Smart Channel	<u> </u>			
12 Principles of Animat	ion			
Flipbook Animation				
<u>Zoetrope Animation</u> Stop motion Animation				
Textbook	<u>l</u>			
• The Animator's	Survival Kit" by Pi	chard Williams		
Animation: From	m Script to Screen	" by Shamus Culhane		
Timing for Anim	nation" by Harold	Whitaker and John Halas		

Catalogue propored	Name: Mr. Karthik Manokaran
Catalogue prepared	Designation: Assistant Professor
by	School of Design
Recommended by	
the Board of Studies	4 th Board of Studies held on 10 th of August 2021
on	
Date of Approval by	
the Academic	16 th Academic Council Meeting held on 23 rd October 2021
Council	

			BSWI 2058 Photography			-			
Course Code:	Course Tit	le: Phot	tography			1	0	4	3
BSM2058									
	Type of Co	urse:			L-T-				
		1]	Program Core		P-C				
		2]	Integrated						
		-	C						
Version No.		1.0							
Course Pre-		Nil							
requisites									
Anti-requisites		NIL							
Course		This o	course will impart skills on	the pro	ocess of	digital	photo	graphy	v and
Description		its tech	hniques. Learn how a came	ra wor	ks and d	evelop	advan	nced	
-		techniques. Learn fundamental concepts, techniques, and practices							
		essent	ial for capturing high-quali	ty ima	ges. Den	onstra	ate the	ability	to
		use ph	otography as means of con	nmunic	cation an	d crea	tive ex	pressio	on.
Course		On su	On successful completion of the course the students shall be able to:						le to:
Outcomes		Theory Component:							
		1. Understand the practical exposure to handle camera functions and						s and	
		lighting techniques.							
		Practic	al Component:						
			-						
		2.	Study the image making ski	lls in in	door and	outdo	or cond	itions.	
		3	Explore the techniques and	aesthe	tics in nh	otogra	nhv	,,	
		5.		uestine		otogra	priy.		
Carrows		The el	histing of the servers is to t	fa	nime the l			41	
Course		The of	bjective of the course is to i		rize the	earnei	s with	the	
Objective		conce	pis of Photography and alla			pmen	t of su	ident t	у
		using	Experiential Learning lec	nnique	28.				
0		D ·		1	T ' 1.'	1	T	T	C
Course		Basics	s of Photography, Photogr	rapny	Lighting	and	Lenses	s, 1yp	es or
Content:		Photo	graphy.						
Module 1	Basics of		Assignment			15	Hours		
	Photograph	у	Documentation			.			
Topics:									
History and	d evolution of ph	otograph	ny - Overview of different types o	fcamer	as (DSLR, n	nirrorle	ss, point	-and-sh	oot,
smartphor	ne) - Basic compo	onents of	a camera - Shutter speed, High a	nd low S	Shutter spo	eed			
Images. Ap	perture, Deep De	pth of fie	ld and Shallow depth of field ima	iges. ISO), High and	low ser	nsitive		
images, G	olden Triangle (E	xposure ⁻	Triangle) Working of DSLR - Princi	iples of (Compositio	on Rule	of thirds	s, leadin	g
lines, fram	ing, symmetry								
	Photograph	y							
Madal- 2	Lighting		Assignment			1 = 1	IIce		
ivioaule 2	techniques a	and	Documentation			15	Hours		
	Lenses								

	Topics:	Topics:							
	Natural light vs. artificial light - Direction, quality, and color of light -Using reflectors and diffusers- Types of lenses and their uses (prime, zoom, wide-angle, telephoto, macro) - Essential accessories (tripods, filters, external flashes) - Care and maintenance of equipment - Lens properties: Photographic lens mechanism and structure								
Modu	ıle 3	Types of Photography	Assignment Documentation		15 Hours				
	Topics:		1	1	I				
	Nature Photography, Product Photography, Portraiture, Fashion Photography, Sports and Action Photography, Architecture Photography, Landscape Photography (golden hour, blue hour), Travel Photography, Wildlife Photography.								
	List of Practical Tasks:								
	Project								
	Level 1:								
	 Understanding DSLR Anatomy and exposure techniques of a DSLR camera. 								
	• н	ands-on practice with	camera settings and experime	enting	with different lenses and accessories				
	u	sed in Photography.							
	Level 2:								
	Practicing different types of Photography in the Lab Sessions.								
	• Capturing Photographs on Each Genre and Submitting it by a proper Print.								
	Targeted	Application & Tools th	nat can be used						
	DSLRs and mirrorless cameras are crucial equipment for taking high-quality pictures in photography, and Photoshop and Lightroom are necessary for photo editing and enhancement. Editing on the go is made easier with mobile apps like Snapseed and VSCO. In addition, tools like reflectors, tripods, and external flashes are essential for producing professional-caliber images in a variety of shooting scenarios.								
	Text Boo 3. U 20 4. D C 5. T H	oks Inderstanding Digital 003.USA Digital Portrait Photog datherine he Digital Photograp	Photography by Joseph A. graphy and Lighting: Take hy Handbook: An Illustrate	lippo Memo ed Ste	olito, Thomson Delmar Learning, orable Shots Every Time 2005. By ep-by-step Guide by Doug				

	References							
	8.	Pho	otography for Everyone : The Cultural Lives of Cameras and Consumers in Early Twentieth-Century					
		Japa	an					
		<u>http</u>	s://puniversity.informaticsglobal.com:2282/ehost/detail/detail?vid=4&sid=930c9c96-c032-					
		<u>49d</u>	-8911-					
		<u>dea</u> 2	24061220d%40redis&bdata=JnNpdGU9ZWhvc3QtbGl2ZQ%3d%3d#AN=987073&db=nlebk					
		9.	Photography Ingledew, John, Gullachsen, Lorentz					
			https://puniversity.informaticsglobal.com:2282/ehost/detail/detail?vid=5&sid=930c9c96-c032					
		:	<u>49dc-8911-</u>					
		-	dea24061220d%40redis&bdata=JnNpdGU9ZWhvc3QtbGl2ZQ%3d%3d##AN=926169&db=nlebk					
		10.	. Photography and Landscape : Photography and Landscape					
			https://puniversity.informaticsglobal.com:2282/ehost/detail/detail?vid=7&sid=930c9c96-c032-					
		:	<u>49dc-8911-</u>					
		-	dea24061220d%40redis&bdata=JnNpdGU9ZWhvc3QtbGl2ZQ%3d%3d#AN=1135701&db=nlebk					
	Topics relevant to "SKILL DEVELOPMENT SKILLS":							
	Typ	Types of Lighting, Working of DSLR, Anatomy of DSLR, Types of Lenses etc., for developing "Skill						
	De	Development" through Experiential Learning Techniques. This is attained through assignment						
	cor	npon	ents mentioned in course handout.					
Catalogue		e bv	Mr. Melwin Samuel, R Assistant Professor, Multimedia (SOD)					
Propared by		~ <u>,</u>	10 th Board of Studies hold on 4 th of July 2024					
Recommended by the Board		endec ard	10 Board of Studies field on 4 of July 2024					
of Studies on		on						
Date of		h.,	24 th AC dated 03.08.2024					
Approval by the Academic		by emic						
Council								

	BSM2020	– UI/UX Design								
Course Code: BSM2020	Course	Title: UI/UX Design		L-T-	1	0	4			
	Type of Course: 1] 2]	Discipline Elective Integrated		P-C						
Version No.	1.0							_		
Course Pre-	Nil									
requisites										
Anti-requisites	NIL									
Description	This course will offer Students to Work with a range of User interface and User Experience concepts also will Make the students to Become a successful UI &UX Designer. Introduce students to the standards, practices and techniques of UI & UX Design. Develop students' ability to create high quality UI & UX wireframes and Prototypes. This Module provides both skills-based training in the basic principles and practice of Interface and User experience Design for machines and software, such as mobile devices, H Appliances, computers and other electronics devices. Students will be exposed to the demands and possibilities of working with user and task and information Architecture, Wireframing, Prototyping, Usability Inspection and Usability Testin Students will be encouraged to work with their own created Wireframes and Prototypes.									
Course Objective	This Objective of the c attain <u>Employability S</u>	ourse is to familiarize the learr kills by using Experiential Learn	iers with ing techn	the conce iques	epts of	f UI/U>	(Desi	g		
Course Outcomes	On successful Comp Theory Component: 1. Understa experienc concepts user decis Practical Component 2. Develop	letion of this course students nd the Definition and Princip e (UX) Design to design with of Human -Computer Interact sion making. : a deep understanding of entire	shall be a ples of Us intentio tion (HC)	tble to ser Interf n also th I) and the cle of de	face (U ey wil e Psyc	UI) and ll learr cholog	d Use 1 the y beh	r ni		
Course Content:	2. Develop a Purpose a 3. Utilize th UX. Introduction to UI &	nd Tools ". e industry slandered tools and UX Design, UI & UX Design	l Specific	e Project	Deliv JI & U	verable JX De	es in U	, J		
Module 1	Introduction to UI &UX Design	Assignment Documentation		1	5 Hor	urs				
Topics:

Color: color Harmonies -creating contrast with color, Typography & Fonts: Display Text (Such as Head versus Body Text, Legibility, Type Trends, typeface selection and pairing, Ideal Line Height, Column W (Line Length), Hyphenation & Justification. Design elements and Principles, User Experience, Trends in Mental Model, Elements used in User experience Design, Big Picture, 6 Stages of Design in UX, Heu Evaluation for UX Design- Introduction to User research- Design Thinking- Information Architecture.

Module 2	UI & UX Design Fundamentals	Assignment Documentation	14 Hours
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Topics:

UX Design Fundamentals: Knowing your User, structure and Conducting user interviews to better Identify the needs and current behavior of the user, Creating and Refining interview Questions for users, Engaging user in design Process, Synthesis of User research, Creating Journey Maps and User flows. UX Design Stages: Requirement gathering- Research of Various Techniques- Analysis- Creating Scenarios Flow Diagrams.

UI Design Fundamentals: Menus, Tabs, Bottom Tab Bar, Buttons (including call to action or CTA), Accord Carousel, Breadcrumbs, Modals, Forms

Wireframing & Prototyping: practice sketching session for existing website or mobile applications, SI wire frames for websites and Applications, understand the different methods of Prototyping, Prototype inclunewly discovered user goals, business needs and improved Functionality. User Testing with reports.

	Unders	standing	Adobe	Assignment	
Module 3	XD	and	Figma	Documentation	16 Hours
	Softwa	are's			

Topics:

Create Visual Design & Clickable Prototypes for websites, Mobile Applications and Touch Screen panels.

Introduction to Adobe XD and Figma software, Layout and Interfaces in Adobe XD and Figma. Role of a UI & UX Desi

List of Practical Tasks:

Level1:

- 1. create an Interactive Blog of your choice
- 2. Create a website of your choice
- 3. create a Mobile Application of your choice
- 4. Create an Interactive Touch screen Display Panel for any Business Organization.

Level 2:

- 1. Create an Interactive Touch screen Display Panel for any Business Organization with at least 3 Unique Creative Idea.
- 2. Create a website of your choice with at least 3 Unique and Creative Idea.
- 3. Create a Mobile Application of your choice with at least 3 Unique and Creative Idea.

Text Books

- o Don Norman, The Design of Everyday things, 2013, ISBN no 978-0465050659.
- o Joel Marsh, UX For Beginners: A Crash course in 100 short lessons, 2016, Oreilly publications.

Targeted Applications and Tools can be used

In UI/UX Design, tools like sketch, Figma and Adobe XD are essential for wireframing, prototyping, and creating interfaces. Platforms like Invision and Usability hub facilitate user testing and feedback, while Miro sup brainstorming and mapping user journeys. These tools collectively enable the development of intuitive and enga

References

- 10. https://www.eleken.co/blog-posts/ui-ux-books
- <u>https://www.youtube.com/watch?v=c9Wg6Cb_YlU</u> Wireframe, Mockups and Design in Figma Software.
- 12. <u>https://www.youtube.com/watch?v=kbZejnPXyLM&list=PLttcEXjN1UcHu4tCUSNhhuQ4riGAR0</u> – Figma UI &UX Essentials
- 13. <u>https://www.youtube.com/watch?v=f2K1jmjj5pM&list=PLttcEXjN1UcHbhOF4J99QKUiOqt9ETg</u>
 - Adobe XD Essential Guide for UI &UX.

Topics relevant to "EMPLOYABILITY SKILLS":

UI Design Fundamentals: Menus, Tabs, Bottom Tab Bar, Buttons (including call to action or CTA), Accord Carousel, Breadcrumbs, Modals, Forms for developing **Employability Skills** through **Experiential Lear** techniques. This is attained through the assessment component mentioned in the course handout.

Catalogue	Mr. Prakash.KP
prepared by	Assistant Professor, Multimedia (SOD)
	· · · · · · · · · · · · · · · · · · ·
Recommended	4th Board of Studies held on 10 th of August 2021
by the Board of	
Studies on	

Date of Approval by the Academic Council	16 th Academic Council Meeting held on 23 rd October 2021

BSM2059 – Advertising and Public Relation

Course Code:	Course Title: Advertising and Public Relation					Ι	
BSM2059	Turne of Common	L-T-P-C	2	0	2	3	
	Type of Course:						
	2]Integrated						
Version No.	1.0						
Course Pre-requisites	Visual Design (BSM 1003)						
Anti-requisites	NIL						
Course Description	The course will dwell upon the role and scope of Public Relations (PR) in management, its various tools and emerging importance. It also looks into the evolution of PR and its expanded role in organizational and marketing communication. The course also introduces the concepts and principles of Advertising, role of Ad agency. This course will help in understanding the Fundamentals and functioning of Advertising and media. The strategic and creative processes involved in creating successful advertising campaigns and overseeing public relations initiatives will be examined by the students.						
Course Outcomes	 On successful completion of the course the students shall be able to: Theory Component: Identify the meaning, concept, and tools of Advertising and Public Relations. Practical Component: 						
	 Discuss the role and importance of advertising in society. Interpret organizational workflow of Advertising Agency. 4. 						
Course Objective	This objective of the course is to familiarize the learners with the concepts of Advertising and Public Relation and attain <u>Skill Developed</u> by using <u>Experiential Learning</u> techniques.						
Course Content:	Classification and aspects of Advertisements, T	ools and T	ech	niqu	ues c	of	
	Advertisement, Public Relations, Principles of Adv	vertisements	, Sci	ripti	ing fo	or	
	Tv and Radio Advertisements, Media Planning.						

Module 1 Adverti	cation and of sements	Assignment: Students will be asked to collect the various advertisement tools.	15 Hours
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Topics:

Advertising Definition, meaning and concept, Nature and Scope of Advertising in modern society, Classification of Advertising, Elements of Advertising, Organizational structure of an advertising agency, Types of advertising agencies Advertising appeals, SWOT Analysis, Target Audience, Feedback, PSA (Public Service Announcement). Basics of consumer behavior - The decision-making process factors for buyers

of Advertisement banners	Module 2	Tools and Techniques of Advertisement	Assignment: Pamphlets, banners	15 Hours
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Topics:

Print Advertisement - Digital Advertising, Types of TV commercials, Script for Commercials, Concept Creation, Media Planning - Production Crew, Cost Analysis, Special Talents, Production Procedure, Schedule, Post Production, Audio, Musical.

Module 3	Public Relations	Assignment	15 Hours	
Topics:				

Meaning, Definition, and concept of Public Relation, Objective of Public Relation, Advertising campaigns, Advertising research, Media selection, Media planning strategies, history and Growth of PR in India- Strategies for Social Media marketing.

List of Practical Tasks: Level1

- 1. Create a comprehensive PR campaign plan for a product launch, including press releases, media pitches, and social media strategy.
- 2. Plan, schedule, and execute a week-long social media content calendar for a brand.
- Perform a SWOT analysis (Strengths, Weaknesses, Opportunities, Threats) for a company's current advertising and PR efforts.
 List of Practical Tasks: Level2
- 4. Write a press release for a fictional event or product launch, ensuring it follows industry standards and is newsworthy.
- 5. Develop a crisis communication plan for a hypothetical PR crisis, including key messages, spokesperson training, and media response strategies.
- 6. Assemble a media kit for a company or brand, including a press release, company backgrounder, executive bios, and product information.

Targeted Application & Tools that can be used

Essential tools in public relations and advertising include Hootsuite for social media campaign management and the Adobe Creative Suite for designing ads. For media analytics and monitoring, PR management solutions such as Cision and Meltwater are essential. Furthermore, resources like Google Analytics and SEMrush offer insights into audience engagement and campaign performance, empowering students to create successful advertising campaigns and handle public relations initiatives effectively.

Text Books

1. Donald W. Jugenheimer, Larry D. Kelley, Jerry Hudson, Samuel Bradley Advertising and Public Relations Research, Routledge, 2014),

References

1. Ramli, F. A. A., Samat, M. F. Factors contributing the effectiveness in public relation practices. Advances in Business Research International Journal, 4(1), 27-34.(2020).								
2. Brotojoyo, E., Purwantini, V. T. Analysis of Advertising, Sales Promotion, and Public Relation								
on Coffe Purchasing	on Coffe Purchasing decisions in The Sragen Coffe Garage During the Covid-19 Pandemic.							
Journal of Indonesia	an Science Economic Research, 2(5), 1724.(2020).							
3. Lee, H., Cho, C. H.	Digital advertising: present and future prospects. International Journal of							
Advertising, 39(3),	332-341.(2020).							
4. Guseva, O. V., Khaty $162(2010)$	ynova, L. T. How does image advertising work? (1), 160-							
163.(2019). 5 Mars Evolve D Adv	artician Trans Transla and Controversion (2012)							
5. Mann, Evelyn P Adv	rerusing: Types, Trends, and Controversies, (2012)							
video Lectures								
1. MOOC on Advertis	ing and Public Relations							
https://www.youtub	e.com/watch?v=emXpYiFkoT8&t=10s							
2. Introduction to Pub	2. Introduction to Public Relations https://www.youtube.com/watch?v=SeSKikrDPas							
3. Advertising, Sales I	Promotion, and Public Relations Part 1							
https://www.youtub	e.com/watch?v=0C6Kkbq vXA							
4. Advertising, Sales Promotion, and Public Relations Part 2								
https://www.youtube.co	om/watch?v=sWPNsaRUtOE							
Topics relevant to "SKILL DEVELOPMENT":								
Classification of Advertising, Organizational Structure of Advertising Agency for Skill Development through								
Experiential Learning tec	Experiential Learning techniques. This is attained through assessment component mentioned in course							
handout.								
Catalogue prepared by	Mr. Melwin Samuel. R							
	Assistant Professor, Multimedia (SOD)							
Recommended by the	10th Board of Studies held on 4th of July 2024							
Board of Studies on	ath AG 1 (102.09.2024							
Date of Approval by	24 ^m AC dated 03.08.2024							
the Academic Council								

Course Code:	Course Title: Design Thinking and Communication		2	0	2	3		
BSM1015	Type of Course: 1] Discipline Elective 2] Integrated	L-T- P-C						
Version No.	1.0		1	1				
Course Pre- requisites	Nil							
Anti-requisites	NIL							
Course Description	Students pursuing a Bachelor of Science in Mult concepts and methods of design thinking and how communication. To develop original answers for will investigate user-centered design techniques, prototyping, and testing. To effectively and convi a significant emphasis on written, spoken, and w will be developed. Students will gain the ability to into their multimedia work through practical pro case studies. This will improve their capacity powerful material for a range of media platforms	Students pursuing a Bachelor of Science in Multimedia will learn about the concepts and methods of design thinking and how to apply them to effective communication. To develop original answers for pressing issues, students will investigate user-centered design techniques, such as empathy, ideation, prototyping, and testing. To effectively and convincingly communicate ideas, a significant emphasis on written, spoken, and visual communication skills will be developed. Students will gain the ability to incorporate design thinking into their multimedia work through practical projects, group activities, and case studies. This will improve their capacity to create compelling and powerful material for a range of media platforms.						
Course Objective	This Objective of the course is to familiarize the learne Thinking and Communication and attain <u>Skill Deve</u> <u>Experiential Learning</u> techniques.	This Objective of the course is to familiarize the learners with the concepts of Design Thinking and Communication and attain <u>Skill Development</u> of student by using <u>Experiential Learning</u> techniques.						
Course Outcomes	 On successful Completion of this course students Theory Component: 1. Understand the concepts of design thinks Practical Component: 2. Develop the students as good designers by problem -solving ability. 3. Practice design thinking skills in the deve prototypes. 	 On successful Completion of this course students shall be able to Theory Component: Understand the concepts of design thinking approaches. Practical Component: Develop the students as good designers by imparting creativity and problem -solving ability. Practice design thinking skills in the development of innovative prototypes. 						
Course Content:	Introduction to Design Thinking, Working with and design Principles, Layout and composition prototyping and User testing.	Gestalt j on, Vis	princi ualiz	ples, ation	Elem of c	ents lata,		

BSM1015- Design Thinking and Communication

Module 1		INTRODUCTION TO DESIGN THINKING	Assignment Documentation	Observation/ Demo/ Videos/ Interaction/ Discussion	15 Hours				
	Topics: 1. Visual Elements & Design Principles Color, line, space, texture, form Unity, harmony, balance, hierarchy, scale/proportions, dominance emphasis, similarity & contrast Title and Typography 2. Gestalt Principles Implementation Proximity, Similarity, Closure, Good continuation, Common fate, Good Form 3. Layout and Compositions Content Compositions Grids/Wireframing 4. The power of icon & symbols Historical & Cultural Impact of Icons & Symbols Icons & Symbols in Art and literature Commercial and Marketing use of Icons& Symbols Technological and Digital Symbols 5.Introduction to Design thinking - Empathy and user Research – Defining problems -Ideation								
Module	e 2	THE POWER OF VISUAL STORYTELLING	Assignment Documentation	Observation/ Demo/ Videos/ Interaction/ Discussion	14 Hours				
	Topics: 1. Creative Approaches Building design resource team Brainstorming Formats and Storytelling Researching data 2. Visualization Information Methods Visual metaphors Visualizing Information Design Thinking 3. Prototyping Basics Low fidelity, High Fidelity Tools and Materials for Prototyping								

Module 3 INTERACTION DESIGN Assignment Demo/ IMPLEMENTATION Documentation Interaction/ 16 Hours											
Topics: 1. Scree 1 2. Impor Te 3. Intera 4. U	 1. Screen casting & Researching Problem solving Planning Workflow 2. Importing media Text, Graphics, Animation, Audio and Video 3. Interactive media (Media Framework) Compositing Navigation techniques Animation & Video elements 4. User Testing 										
5. 	usability testing Methods for gathering User feedback Analysing and Identifying areas for Improvement 5. Iteration and Refinement Iterative design process Integrating user feedback into design Revision Preparing final Prototype for Presentation										
List of Pr Exercise Activity: or servic Exercise Activity: user's ste Exercise	List of Practical Tasks: Level 1Exercise 1: Empathy InterviewsActivity: Conduct interviews with potential users about their experiences with a specific product or service. Create a set of open-ended questions and record the responses.Exercise 2: Journey MappingActivity: Choose a common activity (e.g., online shopping) and create a journey map highlighting the user's steps, emotions, and pain points.Exercise 3: Brainstorming Session										
Activity Encourag <u>Exercise</u> Activity: ideas. Fo List of Pr	Activity: Organize a brainstorming session using techniques like mind mapping or SCAMPER. Encourage quantity over quality and defer judgment. Exercise 4: Low-Fidelity Prototyping Activity: Use paper, cardboard, or simple digital tools to create low-fidelity prototypes of your design ideas. Focus on key functionalities and user interactions. List of Practical Tasks: Level 2 Evention 1: Interactive Prototyping										

Activity: Use tools like Adobe XD, Sketch, or Figma to create high-fidelity interactive prototypes. Include					
key screens and user pathways.					
Exercise 2: Usability Testing					
Activity: Conduct usability testing sessions with at least five users. Observe their interactions, note any					
issues, and collect feedback.					
Targeted Application & Tools that can be used: In the context of Design Thinking and Communication, various applications and tools are pivotal for fostering creativity, collaboration, and effective communication. Tools like Miro and Lucid chart are excellent for brainstorming, mind mapping, and creating flowcharts, aiding in the ideation, and planning phases. For prototyping, Adobe XD and Figma are widely used to design and test user interfaces and experiences. Communication platforms such as Slack and Microsoft Teams facilitate seamless collaboration and feedback among team members. Additionally, tools like Canva and Adobe Spark are useful for creating visually appealing presentations and marketing materials, ensuring that ideas are communicated clearly and effectively to stakeholders					
Text Books • Tim Brown, Change by Design: How Design Thinking Transforms Organizations and Inspires					
Innovation, HarperCollins Publishers Ltd.					
 IdrisMootee, Design Thinking for Strategic Innovation, 2013, John Wiley & Sons Inc 					
References					
14. Brenda Laurel Design Research methods and perspectives MIT press 2003					
15. Terwiesch, C. & Ulrich, K.T., 2009. Innovation Tournaments: creating and identifying					
Exceptional Opportunities, Harvard business press.					
16. Ulrich & Eppinger, Product Design and Development, 3rd Edition, McGraw Hill, 2004					
17. Stuart Pugh, Total Design: Integrated Methods for Successful Product Engineering,					
BjarkiHallgrimsson, Prototyping and model making for product design, 2012,					
Laurence King Publishing Ltd					
18. Kevin Henry, Drawing for Product designers, 2012, Laurence King Publishing Ltd					
19. <u>https://youtu.be/_r0VX-aU_T8</u>					
20. https://youtu.be/gHGN6hs2gZY					
21. https://youtu.be/_WI3B54m6SU					
Topics relevant to "EMPLOYABILITY SKILLS":					

Visual Elements & Design Principles, Visual Elements & Design Principles, Text, Graphics, Animation, Audio, Video for developing **Skill Development** through **Experiential Learning** techniques. This is attained through the assessment component mentioned in the course handout.

Catalogue	Mr. Prakash.KP
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	10th Board of Studies held on 4th of July 2024
by the Board	
of Studies on	
Date of	24 th AC dated 03.08.2024
Approval by	
the Academic	
Council	

BSM2060 – 3D Modeling and Texturing

Course Code:	Course Title: 3D Modeling and		1	0	4	3
BSM2060	Texturing	L-T-P-C				
	Type of Course: 1] Program Core 2] Integrated					
Version No.	1.0					
Course Pre- requisites	Nil					
Anti-requisites	NIL					
Course Description	This course equips you with Maya's interface, modelling tools, and texturing basics. Learn to build & manipulate 3D objects, apply textures & materials, and create lighting setups for a polished look.					
Course Objective	This Objective of the Course is to familiarize the learners with the concepts of 3D Modelling and Texturing and attain <u>Skill Development</u> by using <u>Experiential</u> <u>Learning</u> techniques					
Course	On successful Completion of this course	students shall	be abl	e to:		
Outcomes	 7. Understand the concepts of 3D Modeling and Texturing Practical Component: 8. Develop the students as good 3D Modeling and Texturing Artists by imparting creativity and problem -solving ability. 9. Produce 3D Modeling and texturing skills in the development of 					ts
	innovative 3D Short Films as wel	l as Full-fledge	ed mo	vies		

Course Content:	Maya Interface, Basic Intermediate Modelling	c Modelling & Texturing, g Techniques & Polygonal W	Introduction to Texturing, orkflow
Module 1	Maya Interface, Basic Modeling & Texturing	Assignment Documentation	15 Hours
Topics:	Texturing	I	
_			
• Int	roduction to the Maya in	terface, including menus, t	tool shelves, and
	tomization options.	uport manipulation hotkey	us and working planes
\circ Na \circ Ra	sic modeling primitives.	creating editing and trans	sforming primitives
o Sel	ection techniques: select	ing objects, components (vertices, edges, faces), and
usi	ng selection sets.		
• Int	roduction to modifiers: n	nanipulating existing geon	netry with tools like
Ext	trude, Inset, and Mirror.		
	Terdene der edener der	Assistant	
Module 2	Introduction to Texturing	Documentation	14 Hours
Topics:	Texturing	Documentation	
\circ Int	roduction to texturing wo	orkflows: understanding th	e importance of textures
and	l materials.	6	I
o Ima	age manipulation basics	relevant to texturing (using	g software like Photoshop
or	other texturing software'	s for basic edits).	_
o UV	unwrapping fundament	als: unwrapping a model's	3D surface onto a 2D
ima	age plane for texture app	lication.	
• Int	roduction to Maya's shad	ing network: creating basi	c materials using shaders
and	l textures.	in a tautuma ta madala ha	aia tantuna magnina
	ions (repeat offset scale	ang textures to models, ba	sic texture mapping
- Opt	ions (repeat, onset, scale	<i>.</i>	
_	Intermediate	Assignment	
Module 3	Modelling Techniques	5 Documentation	16 Hours
	& Polygonal Workflow		
Topics:	1 1 1 .	· · · · ·	
o Ad	vanced object manipulat	ion: snapping, freezing tra	nsformations, and working
	wonal modeling tools:	es (local, world, object).	nulating vartices edges
	l faces	Teating, cuiting, and main	pulating vertices, euges,
\circ We	orking with polygon mes	hes, connecting vertices, c	reating holes, and using
the	Merge tool effectively.	.,	6
• Int	roduction to retopology:	optimizing polygon count	while preserving mesh
det	ail.		
o Liv	e Boolean operations for	real-time model creation.	
• Int	roduction to modeling fo	r specific purposes (e.g., g	games, VFX) with
cor	isiderations for polygon	etticiency.	

List of Practical Tasks: Level 1

- 1. Create a scene using various basic modeling primitives (cubes, spheres, cylinders) and modify them with transformations (scale, rotate, move).
- 2. Model a simple teapot, unwrap its UVs, and apply a basic texture material to achieve a visually appealing look.
- 3. Create a basic planetary model and apply procedural textures within Maya to achieve realistic surface features like craters and mountains.
- 4. Model chess pawns with a focus on replicating its proportions and details. Use reference images and practice proper polygon workflow.

List of Practical Tasks: Level 2

- 5. Build a low poly furniture (Sofa, Chair) focusing on proper polygonal workflow (clean mesh creation) and efficient use of vertices.
- 6. Create a model of an old house/cottage, unwrap and texture it

Textbooks

- 1. Landes, C. (2018). Advanced Maya Modeling: Techniques for Realistic 3D Characters (1st ed.). Autodesk Official Press.
- 2. Keenan, E. (2019). Maya: The Complete Guide (6th ed.). Autodesk Official Press.
- 3. Woodbury, K. (2017). The Language of 3D Design: A Visual Guide to the Anatomy, Mechanics, and Beauty of Form (1st ed.). Focal Press.
- 4. Paráfilo, E., & Madhav, S. (2011). Introduction to 3D Game Programming with DirectX 11 Using C++ (1st ed.). O'Reilly Media. (While this book focuses on game programming, it covers core 3D modeling and texturing concepts applicable to Maya)
- 5. Spencer, S., & Lathan, K. (2010). 3D Modeling & Texturing: Essential Techniques for Creating Realistic Art (1st ed.). Focal Press.
- 6. Julien, I., & Focal Press Editors. (2009). The Art of 3D Animation and Visual Effects with Maya (2nd ed.). Focal Press. (This book delves into animation and visual effects alongside modeling and texturing, providing a broader context)
- 7. Murdock, K., & Schacher, D. (2004). Maya Modeling and Texturing Bible (1st ed.). Wiley. (While older, this book offers a comprehensive guide to Maya's modeling and texturing capabilities)

Targeted Application and Tools that can be used: This curriculum ensures that the students gain a solid foundation in 3D Modelling and Texturing methods, using 3D software's like Autodesk Maya, progressing from basic skills to developing their own creative Models and Texture them to create a final polished outlook.

References

- 22. <u>https://www.youtube.com/watch?v=eBEitxaRYQs&t=568s</u> Modeling basics in Maya
- 23. <u>https://www.youtube.com/watch?v=bjIxfVjsXuM</u> Modeling a Well in Maya
- 24. <u>https://www.youtube.com/watch?v=V59XKklgfDE</u> Modeling a Coffee cup in Maya
- 25. <u>https://www.youtube.com/watch?v=IR0xHcx8xN4</u> Modeling Chess pawns in Maya

Topics relevant to "SKILLDEVELOPMENT": Information Communicated through 3D Modeling of props, products, organic and inorganic environments and architecture for **SKILL DEVELOPMENT** through **Experiential Learning Techniques.** This is attained through

assignment components mentioned in course handout.

Catalogue prepared by	Mr. Vijay Kumar. D Assistant Professor, Multimedia (SOD)
Recommended by the Board of Studies on	10th Board of Studies held on 4th of July 2024
Date of Approval by the Academic Council	24 th AC dated 03.08.2024

Course Code: BSM2061	Course Title: T Advertisement	elevision and Production		1	0	4	3
	Type of Courses	1] Program Core2]Laboratory	L-T -P-C				
Version No.	1.0				1	1	
Course Pre-requisites	Nil						
Anti-requisites	NIL						
Course Description	This course provides a focus on the technical, artistic, and organizational aspects of developing material for TV and digital platforms. This course offers a thorough examination of television and advertisement production. The whole production process—from concept to post-production will be covered for students, with a focus on television shows and commercial advertising. Students will learn about the technical aspects of video production, including camera						
Course Objective	The course's object	ctive is to familiarize lea	arners wi	th the	e cor	cepts	of
	video Technology students by using	and Production and at Experiential Learning	tain Skill technique	Deve es.	lopn	nent d	ot
Course Outcomes	On successful completion of this course students will be able to: Theory Component: 1. Understand scripts, make storyboards, and pitch ideas for Television Shows. Practical Component: 2. Plan and create video projects incorporating Video & audio elements. 3. Interpret the process of studio production in Television.						
Course Content: Introduction Stages of Production, Sound/A	Course Content: Introduction to video Production, Television and Advertisement Production, Stages of Production, Sound/Audio						
Module 1	Introduction to video Production	Assignment	10 Hou	rs			
Topics: Video: Definition - working principle of video & film, sound – hardware & equipment, - frame rate, resolution, aspect ratio, compression & format digital video cameras & Equipment's used in Studios - Digital video technologies - Benefits of digital video							

BSM2061 – Television and Advertisement Production

Module 2	Television and Advertisement Production	Assignment Comparative report	20 Hours					
Topics: An outline of the television sector - Television program genres (Game Shows, Fiction, reality, comedy, dramas, etc.,) - Important positions in the creation of television (producer, director, writer, etc.) - Show Formats and Concept Development - Creating ideas and concepts for shows - Recognizing many genres and forms for shows - Ideation for Advertisements – Comparison between Advertisement and Television Production – Set Designs for both Advertisement and								
Television Production.		U						
Module 3	Stages of Production	Assignment Comparative report	15 Hours					
Pre-production- production – p of action - the direction of the – Advertisements that had a si Production	post-production - 1 movement - How gnificant impact is	Introduction to the P Advertisements has n the industry – Stag	roduction Floor - matching been made in earlier days ges in Advertisement					
Module 4	Sound/Audio	Documentation	10 Hours					
 Topics: Perception of sound - hearing sensitivity - Measuring the sound – Introduction to Foley Sounds - Sound isolation and room acoustics- treatments- studio layout – The Basic set-up of the recording system; The production chain and responsibilities. Microphone types -phantom power, noise, choosing the right mike - Mixing console; Input devices & Output devices – Importance of Sound in both Television and Advertisement Production. 2. 								
1 Tay Vaughan Multime	dia: Making it Worl	oth Edition Macrow	Hill Education					
1. Tay vaughan, wultimeula. Waking it work, 5 Eultion, withdraw him eultation								

Reference

Ranjan Parekh, Principles of Multimedia, 2nd Edition, McGraw Hill Education, 2013.

List of Practical Tasks: Level 1

- 1. Develop a storyboard for a 30-second television advertisement.
- 2. Write a script for a 1-minute commercial, focusing on clear messaging and brand promotion.
- 3. Practice filming different scenes using various camera angles and shot compositions.
- 4. Edit raw footage into a coherent 30-second advertisement using basic video editing software
- 5. Record a voiceover for a commercial and integrate it with the video footage

List of Practical Tasks: Level 2

- 6. Create a detailed storyboard and pre-visualization animatic for a 60-second television advertisement
- 7. Edit a 30-second commercial using advanced video editing techniques such as color grading, sound design, and visual effects.
- 8. Produce a 2-minute commercial based on a client brief, including scripting, filming, and editing

Targeted applications and tools can be used:

Television and Advertisement Production relies on Adobe Premiere Pro and Final Cut Pro for advanced video editing, complemented by Storyboard That for visual planning and Celtx for scriptwriting. Professional cameras, lighting kits, and audio equipment are essential for capturing high-quality footage and ensuring production quality. These tools equip students to create impactful commercials, mastering technical skills and creative storytelling in television production.

Topics relevant to "SKILL DEVELOPMENT SKILLS":

Basic Shot angles, Basic Composition, Microphones, for developing "Skill Development" through Experiential Learning Techniques. This is attained through assignment components mentioned in course handout.

Catalogue prepared by	Mr. Melwin Samuel		
	Assistant Professor, Multimedia (SOD)		
Recommended by the Board	10 th Board of Studies held on 4 th of July 2024		
of Studies on			
Date of Approval by the	24 th AC dated 03.08.2024		
Academic Council			

BSM 2063 Web Design and Development

Course Code: BSM2063	Course Title: Web Design and Development Type of Course: Discipline Elective - IntegratedL- T-P- C1043					
Version No.	1.0					
Course pre-requisites	NA					
Anti-requisites	NA					
Course Description	This course provides students with a comprehensive understanding of modern web design and development principles, techniques, and tools. Students will learn to create responsive, accessible, and interactive websites using the latest technologies and best practices. The course covers front-end development, back- end basics, and emerging web technologies, preparing students for the rapidly evolving digital landscape.					
This course aims to enhance students' Skill Development through expe learning in web design and development. It focuses on skill development creating modern, responsive websites, utilizing current technologies and frameworks. Students will learn best practices in accessibility, performation security, while gaining exposure to back-end concepts and emerging tree practical approach prepares students for the evolving demands of the widevelopment industry						
Course Outcomes	 On successful completion of the course, the students shall be able to: Theory Outcomes: Understand the basic building blocks of web pages (HTML, CSS, JavaScriand implement modern web design principles and user experience be practices Practical Outcomes: Interpret design principles to create user-centered and visually appeal web interfaces. Employ design principles to create user-centered and visually appealing web interfaces. 					

Course Content:	Web Fundamentals and Design Principles, Responsive Design and Usability, Building						
course content.	Websites						
	Web Fundamentals		Case studies, classroom				
Module 1	and Design	Visual documentation	discussions and	15 Hours			
	Principles		presentations				

Theory:

- 1. Introduction to web technologies and the internet
- 2. HTML5 structure and semantic elements
- 3. CSS3 fundamentals and styling techniques
- 4. JavaScript basics and DOM manipulation
- 5. Principles of modern web design and user experience

Practical:

- 1. Setting up development environment and tools
- 2. Creating and structuring web pages with HTML5
- 3. Styling web pages with CSS3 (including Flexbox and Grid)
- 4. Implementing basic interactivity with JavaScript
- 5. Applying design principles to a simple website project

Module 2	Responsive Design and Usability	Visual documentation	Case studies, classroom discussions and presentations	15 Hours
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Theory:

- 1. Responsive web design principles
- 2. Mobile-first approach and media queries
- 3. Web typography and color theory
- 4. Web accessibility guidelines (WCAG)
- 5. User interface (UI) and user experience (UX) best practices

Practical:

- 1. Creating responsive layouts using CSS
- 2. Implementing a responsive navigation system
- 3. Optimizing images and media for responsive design
- 4. Conducting accessibility audits and making improvements
- 5. Designing and developing a responsive portfolio website

			1	1			
					Case studies, classroom		
Mo	odul	e 3	Building Websites	Visual documentation	discussions and	15 Hours	
					presentations		
То	pics	:					
	1)	Website Plannin	ng and Content Creation	on - Defining website goa	ls and target audience		
	2)	Planning websit	e content and informa	ation architecture			
	3)	Understanding of	copyright and licensing	g issues for web content			
	4)	Web Hosting an	d Domain Names- Int	roduction to web hosting	and different hosting type	S	
	5)	Setting up web I	hosting and uploading	; website files.			
	6)	Coding website	layouts and pages using	ng HTML and CSS			
	7)	Working with re	usable CSS styles and	frameworks			
	8)	Testing website	functionality across d	ifferent browsers and dev	vices		
	9)	Deploying the w	vebsite to a live server				
Lis	t of	Practical Projects	: Level 1				
1)	Pe	rsonal Portfolio W	/ebsite				
		a. A responsive	e, multi-page site show	wcasing the student's wor	k and skills		
2)	Loo	cal Business Rede	sign				
		a. Redesign an	existing local busines	s website with improved	UX and responsiveness		
3)	Int	eractive Product	Landing Page				
		a. A single-pag	e application for a fict	tional product with intera	ctive elements		
4)	Ac	cessibility-Focuse	d Blog Template				
		a. Design and	develop a highly acces	sible blog template			
5)	Re	sponsive E-comm	erce Product Grid				
		a. Create a res	ponsive grid layout fo	r displaying products with	n filtering options		
6)	Int	eractive Data Visu	ualization				
		a. Develop a w	veb page that presents	s data through interactive	charts and graphs		
7)	So	cial Media Dashbo	oard				
		a. Design a res	ponsive dashboard th	at aggregates data from v	various social media platfor	rms	
Lis	t of	Practical Projects	: Level 2				
8)	We	eather App					
		a. Create a we	ather application that	fetches and displays data	a from a weather API		
9)	On	line Quiz Applicat	tion				
	a. Develop an interactive quiz with multiple-choice questions and score tracking						
10	Restaurant Menu and Ordering System						

- a. Design a digital menu with an online ordering feature for a fictional restaurant
- 11) Event Registration Website
 - a. Create a website for event information and attendee registration
- 12) Fitness Tracker Dashboard
 - a. Develop a dashboard for tracking fitness activities and progress
- 13) Travel Blog with Photo Gallery
 - a. Design a travel blog with a responsive photo gallery and article layout
- 14) Job Board Listing Page
 - a. Create a job listing page with search and filter functionalities
- 15) Music Player Interface
 - a. Design and develop a web-based music player interface

Targeted Applications & Tools that can be used:

- Code Editors: Visual Studio Code
- Version Control: Git and GitHub
- Web Browsers and Developer Tools: Google Chrome DevTools
- Design Tools: Figma
- CSS Preprocessors: Sass
- JavaScript Frameworks/Libraries: React
- CSS Frameworks: Bootstrap or Tailwind CSS
- Package Managers: npm (Node Package Manager)
- Module Bundlers: Webpack
- Performance and Accessibility Testing:Google Lighthouse
- Hosting and Deployment: Netlify or Vercel
- Backend-as-a-Service (BaaS): Firebase

Text Book

- "HTML and CSS: Design and Build Websites" by Jon Duckett (Latest Edition)
- "JavaScript: The Definitive Guide" by David Flanagan (7th Edition or latest)
- "Responsive Web Design with HTML5 and CSS" by Ben Frain (4th Edition or latest)
- "Don't Make Me Think, Revisited: A Common Sense Approach to Web Usability" by Steve Krug
- "Web Design with HTML, CSS, JavaScript and jQuery Set" by Jon Duckett

Reference

- J. Duckett, HTML and CSS: Design and Build Websites, 3rd ed. Indianapolis, IN: John Wiley & Sons, 2023.
- D. Flanagan, JavaScript: The Definitive Guide, 7th ed. Sebastopol, CA: O'Reilly Media, 2020.
- B. Frain, Responsive Web Design with HTML5 and CSS, 4th ed. Birmingham, UK: Packt Publishing, 2022.
- E. A. Meyer and E. Weyl, CSS: The Definitive Guide, 5th ed. Sebastopol, CA: O'Reilly Media, 2023.
- A. Banks and E. Porcello, Learning React: Modern Patterns for Developing React Apps, 2nd ed. Sebastopol, CA: O'Reilly Media, 2020.

Topics relevant to "SKILL DEVELOPMENT SKILLS":

Planning website content and information architecture, implementing responsive web design, setting up web

hosting and deploying websites, using version control for collaborative development, and creating a

professional web development portfolio for Skill Development through Experiential Learning techniques. This

is attained through assessment components mentioned in course handout.

Catalogue prepared	Abhilash BS, Asst. Professor
by	SOD
Recommended by the	10th Board of Studies held on 4th of July 2024
Board of Studies on	
Date of Approval by	24 th AC dated 03.08.2024
the Academic Council	

BSM2062 – Digital Cinematography

Course Code: BSM2062	Course Titl	e: Digital Cinematog	raphy	•	1	0	4	3	3
D 51 v 12002	Type of Cours	se: 1] Discipline Elect 2] Integrated	tive	L- T- P- C					
Version No.	1.0					1			
Course Pre- requisites	Nil								
Anti-requisites	NIL								
Course Description	This course introduces students to cinematography using digital cameras, focusing on capturing well-exposed, focused, and color-balanced images. Students will learn industry standards, practices, and techniques for manipulating cameras to achieve stylistic and dramatic effects. Emphasis is placed on both skills-based training in film/video production with HD cameras and the study of cinematographic aesthetics. Through practical exercises and projects, students will gain hands-on experience in shooting scenes according to specific aesthetic and dramatic criteria, encouraging them to develop and film their own scripts.								
Course Objective	This Objective o of Digital Cine Experiential Lea	f the course is to familia ematography and attai arning techniques	rize the lea n Skill D	rners v evelop	vith th oment	ne con by	cepts using		
Course Outcomes	On successful Completion of this course students shall be able to Theory Component: 10. Understand the implications of shooting in different camera with Proper Composition. Practical Component: 11. Develop skills in operating digital cameras, lighting, and composing shots. 12. Utilize the functions of various manual control settings on the Video cameras to take control of the visual field in front of the camera								
Course Content:	Introduction to the Digital Camera, The Visual Production Process, Composition Techniques, Working with Video Cameras., Framing and Shot composition with Proper meaning.								
Module 1	Introduction to the Digital Camera	Introduction to the Digital CameraAssignment Documentation20 Hours							

Topics:					
The basic principles of Photography and the camera. Formats for recording. Lenses,					
their types and u	se. Focus and de	pth of field. Optical tee	chniques - Comparison between		
digital and traditional film cinematography - Types of digital cameras (DSLR,					
mirrorless, ciner	na cameras) - Ba	sic components of a di	gital camera (sensor, lenses,		1
viewfinder)					
Module 2	The Visual Production ProcessAssignment Documentation20 Hours				
Topics:					
Production, Roles and responsibilities- camera operator, lighting operator- Principles of Lighting - Three-point lighting setup (key light, fill light, back light) – How to use lighting techniques to create mood and atmosphere - Working with various light sources (LEDs, tungsten, fluorescent) - Techniques for diffusing and shaping light - Lighting for different scenes (day, night, interior, exterior)					
Modulo 2	Composition	Assignment	20 Шанта		
would 5	Techniques	Documentation	20 Hours		
Topics:					
The shot, Framing, Mise-en-scene - Principles of composition (rule of thirds, leading					
lines, symmetry) Framing techniques for different types of shots (wide, medium, close-					I
up) - camera movement (pan, tilt, tracking, handheld) - Tools for stabilization (tripods,					
gimbals, sliders)	- Using composi	tion to enhance storyte	lling		

List of Practical Tasks: Level1

1: understand Working of Cameras

- 2: familiarize different Camera Settings
- 3: experience Outdoor Production Process

4: experience Location Scouting

List of Practical Tasks: Level2

- 5: Camera Equipment's used for Shooting in Film and Television
- 6: Hands-on project on lighting and how to compose a scene
- 7: Camera Framing (Mise-en-Scene)
- 8: Camera Shots and Angles.

Targeted applications and tools can be used :

Digital cinematography utilizes advanced tools such as RED and ARRI cameras for capturing high-definition footage with precise exposure and color fidelity. Editing software like Adobe Premiere Pro and DaVinci Resolve enhances post-production workflows, offering tools for color grading and editing. Additionally, tools like cine lenses and stabilizers ensure professional-level cinematographic results, empowering students to master the art of digital filmmaking.

Text Books

- Blain Brown 2011, Cinematography: Theory and Practice, Paperback Ed., Focal Press
- Jennifer Van Sijll 2005, Cinematic Storytelling: The 100 Most Powerful Film
 Conventions Every Filmmaker Must Know, Michael Wiese Productions

References

- 26. Citizen Kane (Orson Wells, USA, 1941)
- 27. https://youtu.be/Ow7w7FUAkdk Basics of Cinematography
- 28. <u>https://youtu.be/mXR571pR4Og</u> Camera Movements
- 29. <u>https://youtu.be/nKM3jkEOpuE</u> Framing and Composition Techniques.

Topics relevant to "EMPLOYABILITY SKILLS":

The shot, Framing, Mise-en-scene, Camera angles, Camera Movements, Equipment's used for Production for developing **Skill Development** through **Experiential Learning** techniques. This is attained through the assessment component mentioned in the course handout.

Catalogue prepared by	Mr. Melwin Samuel Assistant Professor, Multimedia (SOD)	
Recommended by the Board of Studies on	10th Board of Studies held on 4th of July 2024	
Date of Approval by the Academic Council	24 th AC dated 03.08.2024	

Course	Course Title: Ga	ame Ideation and ethic	S					
Code:				L-T-P-C	2	0	2	3
BSM2068	Type of Course:	Discipline Elective, In	ntegrated					
Version	2.0							
No.	2.0							
Course								
Pre-	NA							
requisites								
Anti- requisites	NA	NA						
Course Descriptio n	Unleashir equips wi sources ar video ga contribute your ideas	Unleashing the creativity and design ethically responsible games! This course equips with the skills to brainstorm innovative game ideas, exploring inspiration sources and development techniques. We'll also delve into the ethical landscape of video games, examining social and moral concerns to ensure your designs contribute to a positive gaming environment. By the end, you'll be able to refine your ideas and make informed design choices for impactful and responsible games.						
Course Objective	The obje Game Id Learning	The objective of the course is to familiarize the learners with the concepts of Game Ideation and ethics and attain Skill development through Experiential Learning techniques.						
Course Out Comes	On succes Theory C 1. Ex di Practical C 1. Pr 2. Aj id	 On successful completion of the course, the students shall be able to: Theory Component: Explain the fundamentals of Game Design and the ethics involved. Describe different social, moral and traditional values that could be affected by games. Practical Component, Produce various video game ideas using idea generation techniques. Apply techniques to create proper documentation (GDD) for the game idea, after properly validating them. 						
Course Content:	Game De Designing	Game Design Introduction, For and Against Video Games, Idea Generation & Designing Video Games Responsibly, Game Design Fundamentals,						
Module 1	Game Design Introduction, For and Against Video Games	Demonstration Case Study Documentation	Observation Interaction/	/ Demo/ Vide Discussion	eos/		10 H	ours

BSM2068 Game Ideation and Ethics

	Topic	25:			
	1.	What is a Game?)		
	2.	What is Game De	esign?		
	3.	The Game Produ	ction Pipeline.		
	4.	Essential Skills for	or a Game Designer.		
	5.	The Designer's C	Goal.		
	6.	Video Game Addio	tion, Gambling and Vio	lence.	
	7.	Social and Cultura	l Issues with Video Gam	es.	
	8. Addiction: Perception v/s Reality.				
	9 Player Retention				
	10). Morality within Ga	amers		
	11	Celebrating Cultur	200		
	12	Inclusivity in Video	Games		
	12		o dames.		
		Idea			
		Generation &	Demonstration		
Modu	ıle 2	Designing	Case Study	Observation/ Demo/ Videos/	15 Classes
		Video Games	Documentation	Interaction/ Discussion	
		Responsibly			
	Topic	cs:		•	
	_	1. Elements of a C	Game.		
	,	2. Player Motivati	ion.		
		3. 5 Ideation tech	niques.		
		4. Game Genres.	-		
		5. Validating Idea	lS.		
		6. Sustainable De	sign Practice Awarding	g Disengagement.	
		7. Fair Economy M	odels.		
	:	8. Dark Patterns &	Transparency in Design		
		9. Shaping Player B	ehaviour.		
		10. Designing for Dis	sability.		
			Demonstration	Observation / Dame / Wideos/	
Mada	1. 2	Game Design	Case Study	Ubservation/ Demo/ videos/	20 Classes
Moau	ne s	Fundamentals	Documentation	Discussion/	20 Classes
			Assignment	Practice	
	Topic	es:			
	1.	Basic Game Mec	hanics.		
	2.	Moodboard Crea	tion.		
	3. Gameplay Loops: Theory.				
	4. Gameplay Loops: Practical.				
	5.	Documentation.			
	6.	Types of Docum	ents.		
	7.	GDD Creation.			

	List of Laboratory Tasks: Level 1					
	Experiment N0 1: Gameplay Loops. Level 1: Students must break down popular games and identify their core and supporting loops and make the appropriate diagram representing the loops.					
	Experiment N0 2: Generate 5 different ideas using various ideation techniques. Level 1: Students will create 5 different ideas using various ideation techniques, like Inspiration, Memory, Previous Games, Daily Life, and Passion.					
	List of Laboratory Tasks: Level 2					
	Experiment N0 3: Validating Ideas. Level 2: Students must select 1 out of all ideas after properly validating it.					
	Experiment N0 4: Game Design Documentation. Level 2: Students will be designing a GDD document that lists all the topics covered in this course, for a particular game idea after it has been properly validated.					
	Targeted Application & Tools that can be used: Video game ideation is a critical step when developing video games, as it helps develop a clear vision for the game and lay the foundation for its design and development. Ideation can also help teams identify key elements that will make the game unique and engaging. By brainstorming ideas and discussing them, developers can identify potential issues early on and make changes before they become costly.					
-	Text Book:					
	 Practical Game Design: Learn the art of game design through applicable skills and cutting-edge insights. (ISBN-10 1787121798) 					
	2. A Playful Production Process: For Game Designers (and Everyone). (ISBN 0262045516)					
	 Games, Design and Play: A Detailed Approach to Iterative Game Design (ISBN-10 0134392078) 					
	4. The Art of Game Design. (ISBN-10 9781466598645)					
	5. The Ethics of Computer Games. The MIT Press; 2009 - Miguel Sicart. Ethics of					
	Computer Gaming: A Groundwork (ISBN: 9783662643969). Video Games, Violence,					
	and the Ethics of Fantasy: Killing Time (ISBN: 9781350202702)					

Refe	References:					
	• Ideati	on: The Game Making Process: <u>https://youtu.be/LAKy595YLFI</u>				
	• Ideati	on Techniques: <u>https://youtu.be/Ka5x0ApaIHU</u>				
	 Board 	of Innovation: <u>https://cutt.ly/C1yDoP7</u>				
	• 5 Idea	ation techniques: https://www.mural.co/blog/remote-ideation-techniques				
	• Best u	ses of a morality/karma system in gaming?: patientgamers (reddit.com)				
	 Moral Choice in Video Games – Media Psychology Review (mprcenter.org) 					
	• Ethics	in the Videogame Industry: A Mythbusting and Scientific Approach				
V		ç.				
	1. Moral	ity in the Mechanics - https://www.youtube.com/watch?y=6RHH7M4siPM				
	2. How v	video games affect real-life morality - https://www.voutube.com/watch?v=dNW9e8vIC_4				
	3. Design	ning for Disability: Mark Brown Series - https://wearecolorblind.com/resources/video-				
	desigr	ning-for-disability/				
Тор	oics relev	ant to "EMPLOYABILITY SKILLS": Types of Game Documents, The Game				
Des	ign Docu	ment, Types of GDDs, Popular GDDs, Case Studies, GDD Template, Project:				
GD	D Creatio	n for developing, Awarding Disengagement, Fair Economy Models, Dark Patterns				
& Т	ranspare	nev in Design Employability Skills through Experiential Learning Techniques.				
Thi	s is attain	ed through assessment components mentioned in the course handout.				
Catalogue						
Catalogue		Ms. Rasika Chandle and Mr. Karthik				
by		Asst. Prof. Game Design				
Recommen	1					
ded by the	•					
Board of		10 th Board of Studies held on 4 th of July 2024				
Studies on						
Date of						
Approval						
by the		24 th AC dated 03.08.2024				
Academic						
Council						

Course	Course Title: Intro	duction to Immersive		1	0	4	3
Code: BSM2067	Technologies Type of Course: 1] Discipline Elective		L-T-P-C				
	2]	Integrateu					
Version No.	1.0	1.0					
Course Pre- requisites	Nil	Nil					
Anti- requisites	NIL	NIL					
Course Description Course Objective	This course immersive combination explore the (MR), and o of these tec in content c The course Immersive	This course equips B.Sc. Multimedia students with a foundational understanding of immersive technologies and their applications across various fields. Through a combination of lectures, discussions, hands-on labs, and project work, students will explore the core concepts of virtual reality (VR), augmented reality (AR), mixed reality (MR), and other immersive experiences. The course emphasizes the practical application of these technologies through project-based learning, allowing students to develop skills in content creation, user interaction design, and storytelling for immersive environments. The course's objective is to familiarize learners with the concepts of Introduction to Immersive Technologies and attain Skill Development through Different Immersive				ng of gh a s will reality cation o skills nents. on to ersive	
	Fundamenta	Fundamentals Experiential Learning techniques.					
Course Outcomes	On success Theory Co 13. Uno othe	On successful completion of this course students shall be able to Theory Component: 13. Understand the core functionalities and applications of VR, AR, MR, and other immersive technologies.			and		
	Practical co 14. Des 15. Apj exp	 Practical component: 14. Design and develop basic immersive content using relevant creation tools. 15. Apply storytelling principles to craft compelling narratives for immersive experiences. 				ools. sive	

BSM2067 – Introduction to Immersive Technologies

Course	Demystifying Imm	nersive Technologies,	, Immersive Storytelling & User		
Content:	Experience, Project	t Development & Ite	erative Design, Future of Immersive		
	Technologies.				
Module 1	Demystifying Immersive	Assignment	15 Hours		
	Focus: Understanding the core	concepts, functionaliti	es, and limitations of VR, AR, and MR		
	technologies through case stud	ies and practical explor	ration.		
	Theory Topics:				
	 Introduction to immersive technologies (VR, AR, MR, and emerging possibilities) Hardware components and functionalities of VR headsets, AR glasses, and motion tracking systems Software platforms and tools for immersive content creation 				
	Case Studies:				
	 Analyze successful imr healthcare, retail) Identify key design prin Discuss the impact of in 	nersive experiences acr nciples used in these exp mmersive technologies	oss industries (e.g., gaming, education, periences on user behavior and engagement		
Module 2	Immersive Storytelling & User Experience	Assignment Documentation	15 Hours		
Module 2	Immersive Storytelling & User Experience Focus: Designing user-centered	Assignment Documentation ed immersive experienc	15 Hours ces through storytelling techniques,		
Module 2	Immersive Storytelling & User Experience Focus: Designing user-centered interface design, and UX consi	Assignment Documentation ed immersive experienc derations	15 Hours ces through storytelling techniques,		
Module 2	Immersive Storytelling &User ExperienceFocus: Designing user-centeredinterface design, and UX consiTheory Topics:	Assignment Documentation ed immersive experienc derations	15 Hours ces through storytelling techniques,		
Module 2	Immersive Storytelling & User Experience Focus: Designing user-centered interface design, and UX consi Theory Topics: • Storytelling principles for the user interaction design • Ethical considerations in the consideration of the user interaction design	Assignment Documentation ed immersive experienc derations for immersive experienc in VR and AR (conside in immersive technolog	15 Hours ces through storytelling techniques, ces (linear vs. non-linear narratives) erations for comfort and accessibility) y development (data privacy, safety)		
Module 2	Immersive Storytelling & User ExperienceFocus: Designing user-centered interface design, and UX consiTheory Topics:• Storytelling principles f • User interaction design • Ethical considerations iCase Studies:	Assignment Documentation ed immersive experienc derations for immersive experienc in VR and AR (conside in immersive technolog	15 Hours ces through storytelling techniques, ces (linear vs. non-linear narratives) erations for comfort and accessibility) y development (data privacy, safety)		
Module 2	Immersive Storytelling & User Experience Focus: Designing user-centered interface design, and UX consiteration of the sign	Assignment Documentation ed immersive experience derations for immersive experience in VR and AR (conside in immersive technolog chniques used in success (UI) design choices in in as and best practices in in	15 Hours ces through storytelling techniques, ces (linear vs. non-linear narratives) erations for comfort and accessibility) y development (data privacy, safety) esful immersive experiences AR/VR applications and their immersive technology development		

	 Focus: Applying acquired knopproject through design thinkin Theory Topics: Design thinking for im Project planning and m 	owledge and skills to d g principles. Intersive technology de nanagement for immer	evelop and iterate on an immersive evelopment sive projects
Module 4	Future of Immersive Technologies	Assignment Documentation	16 Hours
	 Focus: Exploring emerging transformed technologies. Theory Topics: Emerging immersive to Potential applications of training, social interact Societal impacts of in privacy concerns) Case Studies & Research: Analyze research paper Discuss potential ber applications Analyze the societal inculture, social interaction 	ends, applications, and echnologies (e.g., brain of immersive technolog tion) mmersive technologie rs and articles exploring hefits and challenges mplications of immers ion, mental health)	potential societal impacts of immersive -computer interfaces, spatial computing) gies in various industries (e.g., education, s (ethical considerations, accessibility, g future trends in immersive technologies associated with emerging immersive sive technologies (e.g., impact on work

List of Practical Tasks: Level 1:
1: Hands-on exploration of different VR and AR hardware platforms (guided sessions)
2: Introduction to immersive content creation tools (e.g., Unity, Unreal Engine) - basic functionalities
3: Conducting user testing sessions on basic immersive prototypes and iterating based on feedback
4: User experience (UX) analysis of existing VR/AR applications

List of Practical Tasks: Level-2:							
5: Research presentations on specific emerging immersive technologies							
6: Group discussions and debates on the ethical considerations and future of immersive technologies							
7: Developing a creative prototype or concept for a future immersive application							
Targeted Application & Tools that can be used:							
In Introduction to Immersive Technologies, students will utilize tools like Unity and Unreal Engine for developing VR, AR, and MR content. Hardware such as Oculus Rift, HTC Vive, and Microsoft HoloLens will be used to explore and create immersive experiences. Software platforms like Blender and Maya will aid in 3D modeling, while storytelling and usability assessment tools like Twine and UX design frameworks will ensure engaging and user-friendly applications. These tools provide a comprehensive foundation for mastering immersive technology development							
Text Books							
 Virtual Reality: The Next Big Thing by Tom Furness 							
\circ Augmented Reality: A Guide to the Technology and Applications of AR by David							
Rose							
\circ The Metaverse: What It Is, Where It's Going, and How It Will Change Everything							
by Matthew Ball							
• Storytelling for Virtual Reality: Techniques for Effective VR Narratives by Diane							
Bustamante							
References							
30. J. Jerald, The VR Book: Augmented Reality, Virtual Reality, and Mixed							
Reality (2nd Edition), Addison-Wesley Professional, 2016.							
31. G. Welch and D. Bishop, An Introduction to Augmented Reality (2nd Edition),							
A K Peters/CRC Press, 2016.							
32. S. Weiskamp and M. Baumann, The Art of User Interface Design for Virtual							
Reality (1st Edition), CRC Press, 2019.							
33. M. Ryan, Narrative as Virtual Reality: Immersion and Interactivity in Literature							
and Electronic Media (1st Edition), Johns Hopkins University Press, 2001.							
34. T. Brown and J. Wyatt, Change by Design: How Design Thinking Transforms							
Organizations and Inspires Innovation (1st Edition), HarperBusiness, 2009.							
35. R. Sharma and R. Vatsavai, Metaverse: Life Beyond the Physical (1st Edition),							
Springer Nature Singapore Pte Ltd., 2022.							

	36. [Project Management Resources] (refer to online resources or textbooks on							
	project management methodologies. Here are some suggestions):							
	37. A Guide to the Project Management Body of Knowledge (PMBOK Guide) -							
	Sixth Edition by Project Management Institute							
	38. [Case Study Examples] (refer to specific research papers or articles on							
	successful immersive experiences across industries)							
	39. [Research Papers on Emerging Immersive Technologies] (refer to recent							
	research articles exploring brain-computer interfaces, spatial computing, etc.)							
	40. [Articles on Societal Impacts of Immersive Technologies] (refer to articles							
	discussing ethical considerations, accessibility, and privacy concerns)							
	Topics relevant to SKILL DEVELOPMENT:							
	Topics like Introduction to immersive technologies, Software platforms and tools for immersive content creation helps to "Skill Development" through Experiential							
	Learning Techniques. This is attained through motion capture assessment components							
	mentioned in course handout.							
Catalogue	Mr. B. S. Abhilash							
prepared by	Assistant Professor							
Pecommended	10^{th} Board of Studies held on 4^{th} of July 2024							
by the Board	10 Board of Studies field off 4 of July 2024							
of Studies on								
Date of	24 th AC dated 03.08.2024							
Approval by								
the Academic								
Council								

Course	Course Title: 3D	Game Art and Design						
Code:	Type of Course:	1.Discipline Elective		L-T-P-C	1	0	4	3
BSM3040		2.Integrated						
Version	1.0							
No.								
Course								
Pre-	NA							
requisites								
Anti- requisites	NA							
	This course provides comprehensive training in 3D game design using Unreal							
Course	Engine. Students	will start with the basics	and prog	gress to adva	ance	d te	chnique	s,
Description	ultimately develop	oing a complete 3D game	e. The co	ourse covers	s imp	orti	ng asset	s,
	animations, constr	ructing game mechanics,	and leve	el design wi	thin	Unr	eal Eng	ine.
Course	The course's object	ctive is to familiarize lea	rners wit	h the conce	epts	of 3	D Game	Art
Objective	and Design and at	tain Skill Development	through	Experientia	l Lea	arni	ng	
Objective	techniques.							
	On successful con	npletion of the course, th	e studen	ts shall be a	ble t	io:		
	Theory Componer	nt:						
C	1. Describe the process of game creation using Game Engine.							
Course Out	Practical Component:							
Comes	3. Produce g	ame levels for 3D Game	es.					
	4. Produce a	working 3D prototype f	for a gam	ne.				
			-					
Course	Fundamentals of 3	3D Design Game Mecha	anics Inte	Δd	lvano	red	3D Gan	1e
Content:	Content: Development							
	· · · · · · · · · · · · · · · · · ·	·	~ 1				- F	
	Fundamentals of	Demonstration	Observat	tion/ Demo/	Vid	eos/	10.1	
Module 1	3D Design	Case Study	Interactio	on/ Discussi	on/		10 ho	ours
—	e	Documentation	Practice					
1 opics:	dolling for Coming							
	ounts and Low Poly M	Addalling						
2. Poly C	ing and LIV Manning	methods for Game Model	c					
4 Assets Creation for Games								
5. Introduction to 3D Game Design								
6. Unreal Engine Interface								
7. Integrating 3D Models to Engine								
8. Integrating Animation								
9. Introduction to Blueprint								
	Game	Demonstration	Observat	ion/ Demo/	Vid	eos/		
Module 2	Mechanics	Case Study 1	Interactio	on/ Discussi	on/		20 H	ours
	Integration	Documentation 1	Practice					
Topics:								
1. Game Mechanics								
2. Systems Design								
3 Level [Jacian and Worldhuil	ding						
5. Leven		ung						

BSM3040 3D Game Art and Design

	Advanced 3D	Demonstration	Observation/ Demo/ Videos/				
Module 3	Game	Case Study	Interaction/ Discussion/	15 Hours			
	Development	Documentation	Practice				
Topics:							
1. Lighti	ng and Post Process	sing					
2. Advar	ced Blueprint Scrip	oting					
3. Partic	le Effects						
4. Camer	ra and Cinematics						
5. Debug	gillg ng and Exporting (amag					
U. Dunui	ory Tasks: Level 1	James					
East of Laborat) 1 : Designing a level	using Game Engine					
Level 1: Studer	nt will learn to design	a level, with player guid	ance and proper lighting and the	critical path			
using game en	gine.			p			
	-						
Experiment NO) 2: Design a short Ci	nematic.					
Level 1: Studer	nt will learn to design	a short cinematic using	game engine. By importing anima	tions and			
understanding	how the in-engine ca	amera works.					
list of lobourt	ami Taaliai Jawal 2						
LIST OF LADORAL	Ory Tasks: Level Z						
Experiment NO	3: 3D Game Prototy	/pe.					
Level 1: Studer	nts will create a work	ing prototype for a 3D G	ame.				
Targeted Appl	ication & Tools that	can be used: This curricu	llum ensures that students gain a	solid			
foundation in l	Unreal Engine, progre	essing from basic skills to	the creation of a full 3D game by	the end of			
the semester.							
Text Book							
"Unreal Engine	4 for Beginners: A C	omprehensive Guide to	3D Game Development" by David	Nixon			
Unreal Engine	4 Scripting with C++ (Cookbook" by William Sh	nerif, "Blueprints Visual Scripting f	or Unreal			
Engine" by Bre	nden Sewell						
References:							
Unreal Engine	Learning: <u>https://ww</u>	w.unrealengine.com/ma	arketplace/en-US/content-				
cat/assets/onlinelearning							
Unreal Engine Documentation: <u>https://dev.epicgames.com/documentation/en-us/unreal-engine/unreal-</u>							
engine-5-4-documentation							
Lipped Engin	int to "Skill Develo	opment": Assian and Warldhuild	ing Diverging for developing S	-:11			
Onreal Engine Interface, Level Design and worldbuilding, Blueprint for developing Skill Development through Emperimental Learning techniques. This is attained through the							
Development milliough Experimental Learning techniques. This is attained through the							
assessment component mentioned in the course nandout.							
nranarad	Ms.Rasika Chand	le					
hv	Asst. Prof. Game Design						
Recommen							
ded by the	10th D 1 CO 1' 1 1 1 4th CT 1 COCA						
Board of	10^{cm} Board of Studies held on 4^{cm} of July 2024						
Studies on							
Date of Approval by the	24 th AC dated 03.08.2024						
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Academic Council							

BSM2064 – 3D Character Animation

Course Code: BSM 2064	Course Title: 3D Character Animation		1	0			
	Type of Course: 1] Program Core 2] Practical Integrated	L-T-P-C					
Version No.	1.0						
Course Pre- requisites	Nil						
Anti-requisites	NIL						
Course Description	Through this course the students master the fundamentals of anatomy. This course equips students with the skills to create various animation software and tackle creative projects, pushing	3D animation, their own 3D a ng the bounda	includin inimatio ries of th	g humar ns. Stude neir artist			
Course	The objective of the course is to familiarize the learners w	ith the concer	ots of 3I	Chara			
Objective	Animation and attain Skill Development of students by us	Animation and attain Skill Development of students by using Experiential Learning t					
Course Outcomes	On successful Completion of this course students shall be Theory component: 16. Understand the art and technique for animating of Practical component: 17. Produce 3D animations using the rigs	On successful Completion of this course students shall be able to Theory component: 16. Understand the art and technique for animating objects Practical component: 17. Produce 3D animations using the rigs					
~	18. Develop a short/mini animated story						
Course	Introduction to character animation, animation tools and c	Introduction to character animation, animation tools and character posing, advanced an					
Content:	Introduction to Character Assignment						
Module 1	Animation Documentation		15 H	lours			
	 Focus: This module establishes a solid foundation in 3D char animation principles. Topics: Character Setup: Exploring character rigs (pre-built understanding their components (joints, controls). IK (Inverse Kinematics): Understanding and applyin (e.g., arms and legs). Basic Animation Tools: Introducing keyframing, interplayback controls, and the Graph Editor. 12 Principles of Animation: Building a foundation or stretch, anticipation, follow-through, and secondary m Creating Basic Animations: Students will practice baball bounce, pendulum, 3 stick animation, dog's ear et Include FK Animation Pipeline and Workflows: Understanding including pre-production, animation, and post-product 	acter animatic skeletons for a g IK for natur erpolation met f animation pr otion. asic animatior c the animatior ion stages.	on tools animatic ral chara hods (li finciples as like b a produc	and bas on) and acter mo acter, sp s like sq ball bour ction pip			

Madula 2	Animation Tools and	Assignment		14 Hours			
Mouule 2	Character Posing	Documentation		14 Hours			
	• Focus: This module build	ls upon the foundation, introducing	interm	ediate animation techni			
	character posing for belie	character posing for believable movement.					
	• Topics:	 Iopics: Introduction to Acting for Animators: Exploring basic acting principles for converse 					
	• Introduction to A						
	emotions and chai	emotions and character personality through animation.					
	• Advanced Anima	ation 1 ools: Exploring tools like at	nimatio	n layers, blending mode			
	non-linear animat	ion techniques.		nlag fan waight distribut			
	• Character Posing	: Learning proper character posing	g princi	ples for weight distribut			
	Timing and Space	ing awkward postures.	danaai	a for importful and not			
	o Timing and Spac	te	u spach	ig for impaction and nat			
	Character Locor	us.	walas d	and other locomotion or			
	o Character Locon	notion: Creating wark cycles, fun c	cycles, a				
	Ior characters.						
		Assignment					
Module 3	Advanced Animation Techniques	Documentation		16 Hours			
				1 1 1 1 1			
	• Focus: This module expl	ores advanced animation technique	s, intro	duces basic lip-syncing			
	professional animation w	orknows, explores advanced anima		ois in Maya, and prepare			
	for collaborative animation projects.						
	• Topics:	as and the Cranh Editory Advance	ad man	inulation of animation			
	o Anniation Curv the Graph Editor	for fine tuning animation timing an	d bohay	ipulation of annhation v			
	\sim Introduction to I	in-Syncing : Exploring workflows	for lin-	syncing characters has			
	audio recordings	hp-bynemg. Exploring worknows	ior np	synemic enaracters base			
	\sim Basic Facial Ani	mation Techniques: Learning how	y to anir	nate facial features (eve			
	mouth) for believe	able expressions	to uni	nate fueral features (eye			
	• Character Intera	ction and Storvtelling: Creating a	nimatio	ons that showcase chara			
	interaction and ba	sic storytelling techniques.					
	 Animation Tools 	for Efficiency: Exploring advance	ed tools	like Motion Capture in			
	character animation	on tools within Maya (e.g., Walk C	ycle Wi	izard), and scripting for			
	automation.		-				
	 Assignments: Stu 	dents will complete a mini animati	on proj	ect, incorporating advar			
	techniques, receiv	ing and implementing feedback, an	nd creat	ing a final presentation			
	for a portfolio or o	lemo reel.					
	List of Practical Tasks: Level 1:						
	1 Create a Dall Davines and D		ا منام ما	as of optimation			
	Create a Bail Bounce and Pendulum animation showing different principles of animation Create Dramatice Dell bounce and Pendulum animation showing different principles of animation			es of animation			
	2. Create Progressive Ball bounce animation telling a short story						
	4 Dog's ear animation showing	onow through, secondary and over	lanning	action			
	5 Create standard walk cycle	animation with the given character	apping				
	6 Create a run cycle animatio	n with given character					
	7. Students will create animat	ions with a focus on proper posing til	ming. ar	nd spacing, incorporating			
	principles.						
	1 - 1						

	Level 2:					
	8. Create different kinds of walk and run cycles					
	9. Create progressive walks and runs					
	10. Create a Jump scene					
	11. Create a mini animation telling a small story					
	Targeted Application & Tools that can be used: This curriculum ensures that students gain a solution in 3D character animation, progressing from basic skills to the creation of a full 3D ani					
	the end of the semester.					
	3D Animation Software's like Autodesk Maya					
	Text Books					
	 Williams, R., & Ward, A. (2009). The Animator's Survival Kit: A Reference Guide to Ma Capture, Facial Animation, and Visual Effects (3rd ed.). Faber and Faber. Landes, C. (2018). Advanced Maya Character Animation: Creating Personalities with the second sec					
	Deformers, and Acting Principles (1st ed.). Autodesk Official Press.					
	 Julien, I., & Focal Press Editors. (2009). The Art of 3D Character Animation (2nd ed.). Focal Eberle, C., & Sosa, J. (2014). Maya Modeling and Animation for Beginners (2nd ed.). Focal Ward, A. (2012). Making Faces: Facial Animation with Maya (2nd ed.). Faber and Faber. Frank Thomas, Ollie Johnston, ILLUSION OF LIFE 					
	 Anna Khan. Acting and Character Animation: The Art of Animated Films, Acting and Visual Kenny Roy. How to Cheat in Maya 2014: Tools and Techniques for Character Animation Keith Osborn. Cartoon Character Animation with Maya: Mastering the Art of Exaggerated Animation 					
	References					
	 41. https://www.youtube.com/watch?v=LJLo6MafPVM – Introduction to Maya 42. <u>https://www.youtube.com/watch?v=FrTIpuAVdys&list=PLnRp1fUkiXQf7VPf1TmVosgK</u> Character Animation Fundamentals 43. https://www.youtube.com/watch?v=U9Ml95_4pUM – Character Animation using other inl animations 					
	Topics relevant to SKILL DEVELOPMENT: The 12 principles of animation, pose to pose A Keyframe Animations for Skill Development through Experiential Learning Techniques. This through the assessment component mentioned in the course handout.					
Catalogue	Mr. Vijav Kumar. D					
prepared by	Assistant Professor.					
Propulse »J	Multimedia (SOD)					
Recommended	10^{th} Board of Studies held on 4^{th} of July 2024					
hy the Roard	10 Dourd of Studies field off 1 of Suly 2021					
of Studios on						
Data of	24^{th} AC dated 03 08 2024					
Anneoval her	24 AC Ualtu 03.00.2024					
Approval by						
the Academic						
Council						

BSM3037 – 3D Rigging

Course Code: BSM3037	Course	Title: 3D Rigging		2	0	4	4
	Type of Course: 1] 2]	Program Core Integrated	L-T-P-C				
Version No.	1.0						
Course Pre-	Nil						
requisites							
Anti-requisites	NIL						
Course	Nature of the Course:						
Description	This Module provides	s both skills-based training in	n the basic princi	ples a	and pr	ractice	of 3D
	Rigging and Animation	. Students will be exposed to	the demands and	d poss	ibilitie	es of wo	orking
	with different Animation Software's and will be asked to produce their own creative Rigged						
Course	Character's and Animations.						
Objective	animation and attain Skill Development of students by using Experiential Learning						
Objective	techniques.						
Course	On successful Completion of this course students shall be able to						
Outcomes	Theory Component:						
	19. Understand the art and anatomy of Humans and animals along with						
	recognizing the interface of 3D Animation Software in depth for creating						
	superior quality rigged characters for animating their own characters.						
	Practical Component: 20 Develop creative rigged models for animation						
	20. Develop creative rigged models for animation 21. Utilize the functions of various menus, sub menus and Interfaces associated						
	with animation software to rig and animate the modelled characters						
	22. Create their own rigged characters for producing animations.						
Course	Character rigging fund	amentals, skinning, deforme	rs and rigging wo	rkflov	vs. ble	end sha	ipes
Content:					-, -,		
	Character						
	Rigging	Assignment	_	0.77			
Module 1	Fundamentals	Documentation	2	0 Ho	urs		

Topics	S:					
0	Observation and analyzin	ng of different skeletal struct	ures, humans, animals, reptiles etc			
0	Understanding Character Rigs: Defining the purpose and functionality of character rigs,					
	exploring their various components (joints, IK/FK systems, controls).					
0	Character Skeleton Hierarchy: Learning proper bone hierarchy for animation (naming					
	conventions, parenting structures).					
0	IK (Inverse Kinematics)	vs. FK (Forward Kinematics	s): Understanding the difference			
	between IK and FK syste	ems and their applications in	animation.			
0	Introduction to Maya's R	igging Tools: Exploring cor	e tools like the Skeleton tool, Joint			
	tool, and the powerful "I	K Rigging" solver system.				
0	Basic Rigging Workflow	: Building a simple biped rig	g with joints, IK/FK setups for			
	limbs, and basic controls	for animation.				
0	Advanced Joint Tools: E	xploring advanced joint tool	s like the "Match Skeleton" tool			
	and mirroring techniques	s for efficient rigging.				
0	Constraints in Rigging: (Understanding and applying	various constraints (e.g., Point,			
_	Creating Digging Control	lo: Duilding intuitive and us	ent realistically.			
0	creating Kigging Control	ns. Building intuitive and use	er-menary control systems for			
	annuators to enticiently I	nampulate the character.				
	Skinning					
	Deformers and	Assignment				
Module 2	Rigging	Documentation	15 Hours			
	Workflows					
• Topics	• Topics:					
0	Introduction to Skinning	: Learning the process of ski	nning a character mesh to the			
	underlying rig for anima	tion.	6			
0	Weight Painting Technic	ues: Understanding and app	lying weight painting techniques to			
	define how vertices on the	he mesh are influenced by the	e rig's movements.			
0	Deformers in Rigging: E	xploring deformers like Ben	dy bones, Blend Shapes, and			
	Cluster deformers for ac	hieving complex deformation	ns (e.g., facial expressions, clothing			
	wrinkles).					
0	Character Rigging Pipeli	ne: Understanding the variou	us stages of a professional character			
	rigging pipeline (plannin	g, blocking, binding, refiner	nent).			
Module 3	Dland Change	Assignment	15 Hours			
	bienu snapes	Documentation				
• Topics	S:					
•	• Basic facial rigging techniques: Creating simple and complex facial rigs with advanced					
	blend shapes for nuanced expressions and lip-syncing.					
0	• Character Binding and Export: Understanding the process of binding a skinned character					
	to its rig for animation and exporting the rigged character for use in other software (e.g.,					
animation software).						
Module 4	Team	Assignment	10 Hours			
	Collaboration	Documentation				
	Conavoration					

• Topics:

- Rigging for Collaboration: Learning how to prepare rigs for sharing with other animators, following industry standards for file organization and naming conventions.
- Introduction to Rigging Tools and Scripts (Optional): Exploring advanced rigging tools and scripts (potentially custom-written) for increased efficiency and automation.
- Rigging Presentation and Documentation: Creating clear documentation and presentations showcasing the functionality of a character rig for animators.
- Assignments: Prepare rigging documentation for collaborative workflows.

List of Practical Tasks: Level 1

- 1. Create a 3 stick Animation rig
- 2. Create a hand rig
- 3. Create Snow man rig

List of Practical Tasks: Level 2

- 4. Simple man rig
- 5. Facial rig using simple blend shapes
- 6. Facial rig using simple locators and skin binding

Targeted Application & Tools that can be used:

• Autodesk Maya 2022

Text Books

- 1. Millepied, B. (2020). Advanced Maya Character Rigging: The Essential Guide to Skeletal Systems and Skinning Techniques (1st ed.). John Wiley & Sons.
- 2. Schacher, D., & Murdock, K. (2014). Learning Maya Rigging: Biped and Quadruped Creature Skeletons (2nd ed.). John Wiley & Sons.
- 3. Osipa, J. (2013). The Art of Maya Character Rigging (2nd ed.). Focal Press.
- 4. Selva, D., & Mira, M. (2018). Introduction to Maya Character Rigging (1st ed.). Packt Publishing.
- 5. Maya: The Complete Guide (Latest Edition). Autodesk Official Press.
- 6. Cheryl Cabrera, (2008) An Essential Introduction to Maya Character Rigging, Focal Press
- 7. Jason Patnode, Character Modeling with Maya and ZBrush: Professional polygonal modeling techniques 1st Edition, Taylor & Francis
- 8. Kelly L. Murdock, Autodesk Maya 2020 Basics Guide, Sdc Publications
- 9. Sean Blake, The Animator's Guide to Maya: Character Rigging and Animation (Focal Press)
- 10. Alexis Aja AK Peters, Character Animation with Maya: Walk Cycles and Beyond by /CRC Press)
- 11. Ron Squires, Advanced Rigging & Deformations: For Games and Animation (Thomson Course Technology)
- 12. Tony Lawrence, The Art of Facial Rigging: Character Facial Animation for Maya (Focal Press)
- 13. Richard Williams, The Animator's Survival Kit: A Reference Guide for Animators by (Focal Press)

References

44. https://www.youtube.com/watch?v=LJLo6MafPVM - Introduction to Maya

45. https://www.youtube.com/watch?v=U9Ml95_4pUM - Character Animation

3.

https://www.youtube.com/watch?v=eBEitxaRYQs&list=PL8G4GiXpgTvK_Hz55q_big94BMO2pCI65 - Maya Polygonal Modelling

4.

<u>https://www.youtube.com/watch?v=LK5REbXkVak&list=PLoxdv8fALl90LfISWtg2GaOFmjttfCtE9</u> – Basics of Maya rigging

5. <u>https://www.youtube.com/watch?v=FvzHn2C-LtQ&list=PLbvsJz5ZcmxGpUYWF-</u>

JqqXyRdAMpFtVf9 – Maya Facial Rigging

Topics relevant to SKILL DEVELOPMENT: Skeleton setup for a Biped Character-setting up work area, working with Joints, Child Parent Connection-Child Parent Connection Multiple-Constrain parent, rigging it with IK and FK Handles, Binding the skin to the skeleton, Rigid Body collision for **Skill Development through Experiential Learning Techniques.** This is attained through assessment component mentioned in course handout.

Catalogue	Mr. Vijay Kumar D
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	10 th Board of Studies held on 4 th of July 2024
by the Board of	
Studies on	
Date of	24 th AC dated 03.08.2024
Approval by	
the Academic	
Council	

Course Code:	Course Title:	Brand Building in	Design		3	0	0	3
DES2081	Type of Cours	e: 1] Open Elective 2] Theory		L-T-P- C				
Version No.	1.0	1.0						
Course Pre-	Nil							
requisites								
Anti-requisites	NIL							
Course Description	This course introduces students to integrated brand-building strategies, differentiating between branding and marketing. It develops their ability to create their own brand strategies, providing skills-based training in branding principles and practices. Students will explore integrated branding methods, including brand strategy creation and brand-building advertisement production. They will be tasked with producing their own creative brand strategies							
Course Objective	This Objective of the Course is to familiarize the learners with the concepts of Brand Building in Design and attain Skill Development by using Participative							
objective	Learning techniques							
Course Outcomes Course Content:	On successful Completion of this course students shall able to Understand the Integrated Brand strategy Models. Develop the skill to create / Design Brand strategy for Integrated Mediums also creates the ability to produce creative Advertisements for Different Mediums. Utilise the functions of various Methods and ways to create Brand strategy. Introduction to Branding, Brand Strategy Design, Brand Strategist Roles and Responsibilities							
Module 1	Introduction to BrandingAssignment Documentation5 Hours							
Topics: Introduction To Product vs Brand- what is Branding-Defining a Brand-Brand Core (Purpose, Vision, Values)-Brand Positioning (Audience, Market, Goals)- Brand Persona (Personality, Voice, Tagline)					ose, lity,			
Module 2	Brand Strategy Design	Assignment Documentation		10 Ho	ırs			

Topics:

How Branding Help to Business Growth - Target market- Brand Positioning- Brand image Building -Brand Identity creation- Brand personality – Brand Vision- Inside Branding-Outside Branding - Brand Strategy Creation- Different Mediums for Branding-Branding Vs Marketing-Understand the Social Psychology of Brands- Emotion and Brands- The symbolic Meaning of Brands.

	Brand		
Module 3	Strategist Roles	Assignment Documentation	E Harris
	and		5 Hours
	Responsibilities		

Topics:

Analyzing Consumer Behavior to define Company Positioning- creating and Checking for Brand Marketing Deliverables- Communicating with Creative Team – Conduct Competitive research to Identify strength and weakness - Design promotional campaigns for new products / services

List of Assignment Tasks:

Level1

1: Identify a Company / Product /Service, Create a Logo and Tagline.

2: Create a Brand Building Advertisement (Print) for a Company / Product /Service of your choice

Level 2:

3: Create a Brand Building Advertisement (Video) for a Company / Product /Service of your choice

4: Create a Brand Promotional Marketing Plan (indoor and Outdoor) for a Company / Product /Service of your choice

5: Create a Two-Year Brand Strategy Design plan for a Company / Product /Service of your choice

Targeted Application & Tools that can be used:

In Brand Building in Design, students will use tools like Adobe Creative Suite (Photoshop, Illustrator, InDesign) for creating visual identities and branding materials. Platforms such as Canva offer accessible design solutions, while Hootsuite and Buffer help manage brand presence on social media. Additionally, software like Brand24 and Google Analytics provide insights into brand performance and audience engagement. These tools collectively enable students to develop, execute, and analyze effective brand strategies.

Text Books

- Douglas Davis, Creative Strategy and the business of Design, Adams Media -Simon and Schuster-2016.
- o Donald Miller, Building a Story Brand HarperCollins Leadership 2017

References

 $46.\ https://www.youtube.com/watch?v=tzrBzZBWtM0-DESIGN\ STRATEGY:\ Solving$

Business Challenges Through Design

- 47. https://www.youtube.com/watch?v=On2K52lcM3c Branding Like a Boss (10 Best Brand Strategy Examples)
- 48. <u>https://www.youtube.com/watch?v=D3Tu3w67Adc</u> How to Create a Brand Strategy

[Proven 14-Step Framework]

Topics relevant to "Entrepreneurial Skills":

Introduction to Product vs Brand, Brand Positioning, How Branding Help to Business Growth planning for developing 'Skill Development through Participative Learning Techniques This is attained through assessment component mentioned in course handout.

Catalogue	Mr. Prakash.KP
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	4 th BOS, held on 10th August 2021
by the Board	
of Studies on	
Date of	16th Academic Council Meeting held on 23rd October 2021
Approval by	
the Academic	
Council	

BSM2026 – Film Production

Course Code:	Course Tit	le: Film Production		2	0	2	3
BSM2026			L-T-				
	Type of Course: 1]	Discipline Elective Laboratory Integrated	P-C				
Version No.	1.0						
Course Pre-	Nil						
requisites	NIT						
Anti-requisites	NIL						
Course Description	This course introduces students to the fundamentals of film production, covering preproduction, production, and postproduction stages. Students will gain skills in scriptwriting, storyboarding, and video and audio editing. Principles of Journalism are integrated into both theory and practical aspects of the course, emphasizing step-by-step learning. Through classroom lectures, industry expert-led workshops, and tailored exercises, students build a solid foundation in film production						
Course Objective	This objective of the Course is to familiarize the learners with the concepts of Film Production and attain Skill Development by using Experiential Learning techniques.						
Course	On successful Completion of this course students shall be able to						
Outcomes	Theory Component:						
	23. Understand the concepts of various Stages involved in Film Production						
	24 Develop Crit	24. Develop Critical analyzing Film Production concept with Principles and					
	theories associated with it. The learner develops Video and Audio						
	Editing skills, Camera Handling skills to help the Production.						
	25. Practice Different Film Production skills in the development of						
9	innovative Short film as well as Documentary Film Production.						
Course Content:	Introduction to film	Making, Film Production Plan	ning, vai	rious I	Dep	artmei	nts in
Content.	Film Production						
	INTRODUCTION						
Module 1	TO FILMAssignment15 HoursMAKINGDocumentation15 Hours						
Topics:			_				
History o	f Films, Types of Film	ns, Process of Film Making. Ov	erview o	of the f	film	crew,	£1
Collaborating and	Collaborating and working with team. Introduction to stages of film production. Introduction to film						
Adoption, Genre, Loglines. Story boards							

Module 2	FILM PRODUCTION PLANNING	Assignment Documentation	14 Hours
Topics:			

Production Planning; Proposals, Budgeting, Scheduling, finding locations, Equipment, Role of production crew, Working with actors. Shot sizes; meaning and motivation, Camera movements- methods and meaning, Master shots, cutaways, inserts, reaction shots, Parallel action, Shooting scripts. Picture composition and framing, working with lighting, color, lenses. Audio field production, microphones, music, sound effects, Shooting with knowledge of editing. Researching, Mini interviews, Essential resources. Preproduction, Production and Postproduction stages.

Module 3	VARIOUS DEPARTMENTS IN FILM PRODUCTION	Assignment Documentation	16 Hours
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Topics:

Direction Department, cinematography and Photography Department, Sound / Audio Department, Editing and Art Direction Department, Acting, Makeup and Costume, Visual effects,

List of Practical Tasks:

Level 1:

- 1. Write a short film script (5-10 pages) with a clear plot, characters, and dialogue
- 2. Create a detailed storyboard for a scene from the written script, including camera angles and movements
- 3. Film a 2-3 minute scene from the storyboard using basic camera and lighting techniques.

Level 2:

- 1. Edit the filmed scene using video editing software, incorporating cuts, transitions, and basic effects.
- 2. Record and edit dialogue, sound effects, and background music for the filmed scene.

Targeted Application & Tools that can be used:

In Film Production, essential tools include cameras like DSLRs and cinema cameras for capturing high-quality footage, and lighting kits for effective scene illumination. For preproduction, scriptwriting software like Final Draft and storyboard tools such as Storyboarder are invaluable. During postproduction, Adobe Premiere Pro and Final Cut Pro are crucial for video editing, while Audacity and Adobe Audition handle audio editing and mixing. These tools collectively empower students to navigate all stages of film production, from concept development to final edit

Text Books

- 0 Jane Barnwell, The Fundamentals of Film Making, AVA book publishing, SA, 2019
- o Nicholas Proferes, Film Directing Fundamentals: See Your Film Before Shooting, Focal press, 2012
- A. Goswami, Thin Film Fundamentals, New age international publishers, 1996 0
- Steven Ascher, The Film Makers Hand Book, 2012 penguin USA Publishing 0

References

49. Amy Villarejo, Film Studies: The Basics, Routledge, 2013

- 50. Michael K. Hughes, Digital Filmmaking for Beginners A Practical Guide to Video Production, McGrawHill, 2012
- 51. Steve Katz, Film Directing shot by shot, 1991 Focal Press
- 52. <u>https://www.youtube.com/watch?v=TARsoxST0tQ&list=PL2vrmieg9tO1GiWpW_-iRaRMLiP-glmnk</u>
- 53. <u>https://www.youtube.com/watch?v=Nz5zQt5QO3Y</u>

https://www.youtube.com/watch?v=iywvNIWKbPI

Topics relevant to "Skill Development":

History of Film, Types of Film, Film making Process, Production Planning, Camera Movement, Composition and Framing for developing **"Skill Development through Participative Learning Techniques** This is attained through assessment components mentioned in course handout.

Catalogue	Mr. Prakash.KP
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	10 th Board of Studies held on 4 th of July 2024
by the Board	
of Studies on	
Date of	24 th AC dated 03.08.2024
Approval by	
the Academic	
Council	

BSM3039 – AI for Multimedia

Course Code:	Course Ti	Course Title: AI for Multimedia104		4	3		
BSM3039			L-T-				
	Type of Course: 1] Discipline Elective 2] Practical Integrated		P-C				
Version No.		1.0					
Course Pre- requisites		Nil					
Anti- requisites		NIL					
Course Description		This course equips multimedia students with the foundational knowledge and practical skills of Artificial Intelligence (AI) and its applications in the multimedia industry. Students will explore various ways generative AI is revolutionizing content creation, personalization, and audience engagement.				actical Idents ation,	
Course Objective		This course empowers Multimedia students through a blend of knowledge acquisition (Al concepts, tools) and hands-on skill development (data analysis, content creation, personalization) using experiential learning techniques . Students will critically analyze AI's potential, compare human vs. AI-generated content, and creatively apply AI to multimedia projects, from traditional formats to cutting-edge VR/AR experiences.				on (AI ation, ze AI's media	
Course Outcomes		 On successful Completion of this course students shall be able to Theory Component: 26. Understand core AI and Generative AI concepts. Practical component: 27. Apply problem-solving techniques to leverage AI tools for data analysis, content creation, and personalization strategies in multimedia projects. 28. Utilize AI tools effectively to craft multimedia projects that communicate ideas and information in an impactful and engaging way. 		sis, cate			
Course Content:		Demystifying AI for Multimedia,					

Madula 1	Demystifying AI for	Assignment		15 Houng			
Module 1	Multimedia	Documentation		15 Hours			
	Focus: This module provide	s a beginner-friendly	intro	duction to Artificial Intelligence			
	(AI) and its applications in multimedia, focusing specifically on Generative AI. No prior						
	 programming experience is required. AI Fundamentals: Introduction to Artificial Intelligence (AI), Machine 						
	Learning (ML), and	their core concepts	•				
	The Multimedia La	andscape & AI: E	xplor	ing how AI is transforming			
	content creation, consumption, and distribution in multimedia.						
	• Demystifying Generative A1: Understanding Generative A1 concepts,						
	applications, and dif	terent types of gene		e models.			
	Benefits & Challeng	es of AI in Multime		Discussing the positive impact			
	and potential drawb	acks of using AI in 1	mult	imedia projects.			
	Real-World Applica	tions: Case studies s	Show	casing now AI is being used in			
	various multimedia	neids (e.g., animatic	on, 11	im, advertising).			
	AL Downard Contant	Assignment					
Module 2	Al-1 Owered Content	Documentation		15 Hours			
	Eccus: This module delves i	nto the practical appl	icatic	ons of AI for creating			
	multimedia content elements	Students will gain h	ande.	$-$ on experience using various ΔI			
	tools and explore their creati	ve notential	anus	on experience using various ru			
	tools and explore their creative potential.						
	• AI Tools for Text Creation: Exploring AI tools for scriptwriting, dialogue						
	generation, and content ideation.						
	AI for Audio Creation	on: Utilizing AI tools	s for	sound effect generation, music			
	composition, and au	dio editing tasks.		8 /			
	 The Power of AI for Visuals: Exploring image and video generation with AI, including style transfer and text-to-image techniques. AI in Storytelling & Design: Learning about AI-assisted storyboarding, 						
	concept art generati	on, and basic anima	tion	techniques.			
	• Ethical Considerations: Discussing responsible use of AI-generated content						
	and potential biases	in AI tools.					
		Γ	1	1			
	AI for Personalized	Assignment					
Module 3	Content Delivery	Documentation		15 Hours			
	content Delivery						
	Focus: This module explore	s how AI can be lever	raged	to understand user preferences			
	and personalize content delivery in multimedia experiences.						
	• The Science of Audience Insights: Understanding how AI analyzes user						
	data (demographics	, interests, behavior) to g	ain audience insights.			
	• Introduction to	User Data and Audienc	e Insig	ghts, Techniques for Data Collection			
	In Multimedia ((No Coding Red	ourveys, Analytics, User unired!)	resti	ing), Kole of A1 in User Data Analysis			

 AI-powered Recommendation Systems: Exploring the algorithms behind AI recommendation systems and their role in content personalization. Introduction to Recommendation Systems, Recommendation System Algorithms (Collaborative Filtering, Content-Based Filtering), The Power of AI in Personalized Recommendations Personalization Strategies for Multimedia Platforms: Learning how to personalize content delivery for different platforms (social media, streaming, interactive experiences). Personalization Strategies for Different Platforms (Social Media, Streaming Services, Interactive Experiences), Content & Interface Personalization Techniques, The Importance of User Experience (UX) in Personalized Content Delivery Data Analysis for Personalization : Using user-friendly data visualization tools to analyze sample datasets relevant to multimedia projects. The Future of Personalized Experiences: Discussing trends and future applications of AI in personalized multimedia content delivery.
• Emerging Trends in AI for Personalized Multimedia Experiences, Ethical Considerations in Personalized Content Delivery, The Future of AI and User Privacy
List of Practical Tasks: Level 1
 Experimenting with Text & Audio AI Tools: Explore free and user-friendly platforms like Jasper (text generation) and Amper Music (AI music composition) ([[invalid URL removed]]) to create text elements and soundtracks for multimedia projects. AI-powered Visual Creation: Practice with online tools like NightCafe Creator for image generation and explore video editing tools with AI features like Adobe Premiere Pro. AI-assisted Storyboarding & Design: Utilize tools like Storyboard That (with basic AI features) to create storyboards and explore AI-powered design platforms like Canva (with limited free features) for design inspiration.
List of Practical Tasks: Level 2
 Data Analysis with AI Tools (No Coding Required!): Experiment with user- friendly data visualization tools like Google Data Studio to gain insights from sample datasets relevant to multimedia projects (consider using publicly available datasets). Building & Testing Recommendation Systems (Simulation): Simulate building basic recommendation systems using online platforms (consider educational simulations) to understand the logic behind content personalization. Developing Personalized Content Delivery Strategies: Design personalized multimedia content delivery strategies for different audience segments, considering platform limitations and user preferences.
Targeted Application & Tools that can be used:

Essential tools for AI for Multimedia include OpenCV for computer vision applications and TensorFlow and PyTorch for creating and refining machine learning models. AI- powered solutions for picture and video editing include Adobe Sensei and RunwayML, while ChatGPT and IBM Watson improve natural language processing and automated content creation. With the help of these programs, students may include AI into multimedia work, which fosters innovation and increases productivity and engagement.

Text BooksoAmperMusic-AIMusicCompositionPlatform, [Online].Available:
[https://welcome.ai/solution/amper] (Accessed on Jun 27, 2024). (Note: Amper Music
website may not be accessible at the time of access)
• Google AI Experiments, [Online]. Available: https://teachablemachine.withgoogle.com/
(Accessed on Jun 27, 2024).
o Google Data Studio, [Online]. Available:
https://datastudio.google.com/u/0/?requirelogin=1 (Accessed on Jun 27, 2024).
• Nightcafe Creator: AI Art & Text-to-Image Generation, [Online]. Available:
https://creator.nightcafe.studio/create (Accessed on Jun 27, 2024).
• Rytr - Al Writing Assistant, [Online]. Available: https://rytr.me/ (Accessed on Jun 27,
2024).
• (Additional Resource) R. Foote, "The history of electronic art: A short, factual account,"
Leonardo Electronic Almanac, vol. 1, no. 1, pp. 59-66, 1994. (This is an example of a
Multimedia Design reference)
• (Additional Resource) J. Yorke, Into the Story: The Foundations of Fiction Writing (The
Art of Narrative), Random House, 2001. (This is an example of a Storytelling reference)
o (Additional Resource) J. Nielsen, Usability Engineering: Interaction Design Heuristics
(Interaction-Design.org), Morgan Kaufmann Publishers, 1995. (This is an example of a
 User Experience (UX) design reference)
References
54. A. Géron, Hands-On Machine Learning with Scikit-Learn, Keras &
TensorFlow Concepts, Tools and Techniques to Build Intelligent Systems
(Concepts, Tools, and Techniques to Build Intelligent Systems), 1st ed.
O'Reilly Media, 2017.
55. Y. Koren, R. Bell, and C. Volansky, "Matrix factorization techniques for
recommender systems," ACM SIGKDD Explorations Newsletter, vol. 4, no. 1,
pp. 1-11, 2002.
56. M. Mitchell, Artificial Intelligence: A Guide for Thinking Humans
(Perspectives on the Present and Future of Intelligent Machines), MIT Press,
2019.
57. A. Rae, C. Ponte, L. Odena, K. Brockman, C. Cain, J.たとえば, J. Schulman,
I. Sutskever, and I. Goodfellow, "End-to-End Training of an AI Dungeon
Master," arXiv preprint arXiv:1606.08144, 2016.

	Topics relevant to SKILL DEVELOPMENT: hands-on skills in data visualization, AI tool exploration (text/image/music generation, recommendation systems), and crafting engaging multimedia projects with AI for content creation and personalization.			
	through assessment component mentioned in course handout.			
Catalogue	Mr. B.S.Abhilash			
prepared by	Assistant Professor,			
	Multimedia (SOD)			
Recommended	10 th Board of Studies held on 4 th of July 2024			
by the Board				
of Studies on				
Date of	24 th AC dated 03.08.2024			
Approval by				
the Academic				
Council				

BSM2002 – Video Editing

Course Code: BSM2002	Course Title: Video Editing			1	0	4	3
			L-T-				
	Type of Course: 1] Progr 2] Integ	ram Core rrated	P-C				
Version No.	1.0						<u>.</u>
Course Pre-	Nil						
requisites							
Anti-requisites	NIL						
Course Description	This course will offer Students into the fundamentals of this creative approach by immersing students in the doing of Video Editing. Learn how to Edit Different Video Content using linear and nonlinear techniques with the help of software such as Final cut pro, Adobe Premier pro. Video Editing is a creative method aims to equip the students to become creative and skilled Editing professionals. All stages of the course emphasize step by step learning, giving a solid foundation in Video editing. Students Develop their skills through classroom lectures, extensive hands-on exercise on nonlinear editing software, workshops led by Industry Experts and tailored Exercises.						
Course Objective	The objective of the course is to familiarize the learners with the concepts of Video Editing and attain Skill Development of student by using Experiential Learning techniques.				,		
Course Outcomes	 On successful Completion of this course students shall able to Theory Component: 29. Understand the concepts of Video Editing and different types of Video Editing. Practical Component: 30. Develop the students as a good Video Editor by imparting creativity and problem -solving ability. 31. Practice Video Editing skills in the development of innovative Short Films as well as Documentary Film Production 				iting. as		
Course Content:	Introduction to Video Editi Editing Software's.	ng, Principles of Video Editing, W	Vorking	with n	onli	near V	Video
Module 1	INTRODUCTION TO VIDEO EDITING	Assignment Documentation		15 H	ours		
Topics: History of vic tools of Digit	leo /Film Editing: The silent al Video -digital video Haro	period, The early sound Film,	xperime eo – Dig	nts in gital A	Edit Audio	ing, 5 Edi	- The ting -

tools of Digital Video -digital video Hardware – movement in digital video – Digital Audio Editing capturing a Digital Video – Composition of Digital Video – Timeline Editing – Color Correction -linear and nonlinear Editing techniques -Exporting a Video -Editing for the Genre: Action -Dialogue-comedydocumentary- Planning ,Script writing, Storyboarding for an Video -

VIodule 2 PRINCIPLES OF VIDE EDITING	O Assignment Documentation	14 Hours
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Topics:

The picture Edit and Continuity – The Picture edit and Pace – The sound edits and clarity- The sound edits and Creative Sound- innovations of sound- non linear Editing and Digital Technology-Cinematography, Lighting and Sound for Video -Graphics and Compositing

Module 3	VIDEO EDITING SOFTWARES	Assignment Documentation	16 Hours
Module 3	VIDEO EDITING SOFTWARES	Assignment Documentation	16 Hours

Topics:

Basic Editing Preparation: creating Log and Organize Footage, Gather Assets, Basic Layout of the Video project, montage Theory, pacing, Match Cuts, setting mood Through editing – Edit Psychology- subtitles -slow motion -Advanced color correction.

Adobe Premiere Pro: Organize and Import Footages -use of Timeline -Exporting Options- Title Creation- Audio Track-color correction- Transitions – Visual effects.

Adobe After Effects: creating standalone Videos -Animations -Special effects -animated titles.

Adobe Audition: Sample Rate – working with Channels – restore and Mastering Audio- Noise Removal and Audio Mixing

-Voice Over adding – Music and Sound effects – Multi track editing -

List of Practical Tasks: Level 1
Project 1: Introduction to Script
1: Develop a story board from an idea / Concept
2: create a Two Column Script for Your Idea / Concept
Project 2: Experience Different Cuts
1: Understand different types of Cuts in Video Editing
2: Create a Montage Video.
List of Practical Tasks: Level 2
Project 3: Building a Scene
1: Experience Shot to shot Transition
2: Create a Scene with Continuity, Matching, and Overlapping.
Project 4: Final project
1: Submit the completed Edited Video as per the Approved Script

Targeted Application & Tools that can be used:

In Video Altering, basic devices incorporate Adobe Debut Master and Last Cut Professional for comprehensive altering capabilities, and DaVinci Resolve for progressed color rectification and reviewing. Extra devices like After Impacts are utilized for movement illustrations and visual impacts, whereas Dauntlessness and Adobe Try out handle sound altering and blending. These applications empower understudies to deliver cleaned, professional-quality video substance by acing different altering procedures and workflows.

Text Books

- WALLACE JACKSON, Digital Video Editing Fundamentals, Apress Publishing 2016
- KEN DANCYGER, The Technique of Film and Video Editing History, Theory, Practice- Focal Press 2007.

References

- 58. AARON GOOLD, The Video Editing Handbook for Beginners ,2021, Publisher John Goold.
- 59. MICHAEL FRIERSON Film & Video Editing Theory: How Editing Creates meaning, A Focal Press Book, published by Routledge 2018.
- 60. https://www.youtube.com/watch?v=y7Ci_H9bYEk
- 61. https://www.youtube.com/watch?v=ge-MmahCcWg
- 62. https://www.youtube.com/watch?v=mkrBVukhZvM
- 63. https://www.youtube.com/watch?v=KvzOtu-pgf4
- 64. <u>https://www.youtube.com/watch?v=8BfyROcym2I&list=PLgc0GNip2uYWepaE7eU8Pu37n6pePnK16</u>

Topics relevant to SKILL DEVELOPMENT: History of video /Film Editing, Experiments in Editing, Digital Audio Editing, nonlinear Editing and Digital Technology for **Skill Development through Experiential Learning Techniques.** This is attained through assessment component mentioned in course handout.

Catalogue	Mr. Prakash.KP
prepared by	Assistant Professor, Multimedia (SOD)
Recommended by	BoS No: 4 th held on 10 th August 2021
the Board of	
Studies on	
Date of Approval	16 th Academic Council Meeting held on 23 rd October 2021
by the Academic	
Council	

BSM2009 – Audio Technology and Production

Course Title: Audio Technology and		1	0	4	3
Production	L- T- P-C				
`y	Production pe of Course: 1] Program Core	Production L- T- P-C pe of Course: 1] Program Core	Production L- T- P-C pe of Course: 1] Program Core	Production L- T- P-C P-C	Production L- T- P-C P-C

	2] Laboratory Integrated			
Version No.	1.0			
Course Pre-	Nil			
requisites				
Anti-requisites	NIL			
Course	This course will offer Students into the fundamentals of the Audio Technology and			
Description	different stages involved in Audio Production.			
	Learn how to Record, Edit and Mix Audio with the help of Software's like Adobe			
	Audition and Pro Tools			
	Audio rechnology and Production is a creative method aims to equip the students			
	emphasize step by step learning, giving a solid foundation in Audio Mixing and			
	Mastering. Students Develop their skills through classroom lectures, extensive			
	hands-on exercise on nonlinear Audio editing software, workshops led by Industry			
G	Experts and tailored Exercises.			
Course	Technology and Production and attain Skill Development of student by using			
Objective	Experiential Learning techniques.			
Course	On successful Completion of this course students shall able to			
Outcomes	Theory Component:			
	32. Define the concepts of Audio Editing and different types of Mixing			
	and Mastering Techniques.			
	33. Develop Critical Listening Skills as well as students will gain			
	knowledge of signal flow and basic audio technology including			
	Mixers, Recorders, Microphones. The learner develops interviewing			
	and field recording skills with practice of the art of storytelling using			
	Sound. 34 Practice Audio Production skills in the development of inpovative			
	Short Films as well as Documentary Film Production.			
Course	Introduction to Sound Theory, Sound Recording Tools and Techniques, Sound			
Content:	Studio Management and Post Production Working with nonlinear Video			
	Editing Software's			
	Editing Software S.			
	Framing and Shot composition with Proper meaning.			

Module 1	INTRODUCTION TO SOUND THEORY	Assignment Documentation	15 Hours		
Topics:					
Sound Theory:	What is Sound? Nat	ture and characteristi	ics of a Sound Wave, Amplitude,		
Frequency, Velo	city, Wave length,	Phase, Harmonic con	ntent- perception of sound, Sound		
recording Freque	ency and Human Hea	aring Audio System -	- Cables and Connections, Routing		
System, Acoustic	e setup, Equipment's:	Monitors, Mixers, Sla	aves, Microphones,		
	SOUND				
Module 2	RECORDING	Assignment	14 Hours		
Module 2	TOOLS AND	Documentation	14 110015		
	TECHNIQUES				
Topics:					
Recording tools and techniques: Working with multiple tracks, Mixing Hierarchies, Mixing					
Tests/Final, Sampling, effects Processing, Pitch and Frequency, Types of Dynamics: Notated					
dynamics, Ambient dynamics, Registral dynamics, Textural dynamics, Timbral dynamics-					
Live Recording: Live Recording Vs. Studio Recording, Equipment's for live recording,					
features of Live 1	ecording, The Brows	er, Live Sets, Arrange	ement and Session, Audio and		
MIDI, Audio Clips and Samples, Saving and Exporting					
Module 3SOUND STUDIO MANAGEMNET and POST PRODUCTION.Assignment Documentation16 Hours					
Topics:					
Sound Engineering	g: Studio Management:	Equipment Manageme	nt- Role of Sound Engineering in Media		

Industry, Exploring live recording document in outdoor. Foley creation, outdoor production equipment. Audio Post Production Overview -Production Dialogue Editing, sound effects -Basic Digital Audio Workstation (DAW) for Audio Post Production- Noise Reduction -the Moves /Clothing Track- The Footsteps/ Steps Track- The props/Specifics Track – Mixing the Music

List of Practical Tasks: Level1

Project 1: Produce a Radio Advertisement

Project 2: Produce a Public Service Advertisement for Radio

Project 3: Produce a Radio Jingle

List of Practical Tasks: Level2

Project 4: Record a Multiple Audio Track for a Video File (Duration: minimum of 3 minutes)

Project 5: Record an Experimental Audio Track (Duration: minimum of 2 minutes)

Targeted Applications and Tools can be used

Digital audio workstations (DAWs), such as Pro Tools, Logic Pro, and Ableton Live, are essential tools in audio technology and production for audio recording, editing, and mixing. For recording and modifying sound, top-notch microphones, audio interfaces, and MIDI controllers are necessary. Programs like Audacity and Adobe Audition provide robust functionality for sound editing and post-production. These programs and resources give students the abilities they need to produce audio content for a variety of media at a professional level.

Text Books

- Timothy A.Dittmar, Audio Engineering 101 A Beginner's Guide to Music Production,2012 ,Published by Elsevier Focal Press.
- Hilary Wyatt and Tim Amyes, Audio Post Production for Television and Film-An Introduction to Technology and Techniques 2005, Focal Press

References

- 65. Mark Cross, Audio Post Production for Film and Telivision, 2013, Berklee Press
- 66. Jonathan Wyner, Audio Mastering Essential Practices, Berklee Press
- 67. <u>https://www.youtube.com/watch?v=qonbJHkxH8w</u>
- 68. <u>https://www.youtube.com/watch?v=iUttXgBDKRI</u>
- 69. https://www.youtube.com/watch?v=nmnR7uDBPsk

https://www.youtube.com/watch?v=N-goa27BSJs

Topics relevant to SKILL DEVELOPMENT: Sound Theory, Nature and characteristics of a Sound Wave ,sound Recording tools and techniques for **Skill Development through Experiential Learning Techniques** This is attained through assessment component mentioned in course handout

Catalogue	Mr. Prakash.KP
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	8 th Board of Studies held on 7 th of July 2023
by the Board	
of Studies on	
Date of	21 st AC Meeting held on 6 th Sep 2023
Approval by	
the Academic	
Council	

	BSW12005 = 5DL	ignuing and Kenuer	ing	1	1		
Course Code:	Course Title: 3I) Lighting and		2	0	2	3
BSM2065	Rende	ering					
			L-T-P-C				
	Type of Course: 1]	Discipline					
	21	Integrated					
	[]	Integratea					
Version No.	1.0						-
Course Pre-	Nil						
requisites	NITT						
Anti-requisites	NIL						
Course	This course equips t	he students with th	ne fundamenta	als of	Ligh	ting a	and
Description	Rendering. Navigating	endering. Navigating 3D Software's interface, explore lighting concepts, create					
	(Mental Ray/alternative). Gaining an edge in 3D animation, game art, or any field						
	requiring high-quality renders.						
Course Objective	This Objective of the O	Course is to familiarize	e the learners v	with th	ne co	ncepts	s of
	3D Lighting and Rende	ering and attain <mark>Skill [</mark>	<mark>Development</mark> b	oy usir	ig <mark>Ex</mark>	<u>perien</u>	<u>tial</u>
	Leanning techniques						
Course	On successful Comp	letion of this course	students shall	be ab	le to		
Outcomes	Theory Component:						
	35. Understand	the concepts of 3D I	ighting and R	lender	ring		
	Practical Component	:		l D	ما م	~ 1	int
	by imparting	creativity and proble	D Lighting and	i Ren Sility	aerin	ig Art	1St
	37. Produce 3D	Lighting and Render	ing skills in th	ne dev	elop	ment	of
	innovative 3D Short Films as well as Full-fledged movies						
Course Content:	Foundations of Lightin	ng & Maya Interface,	Lighting Tech	niques	5 & F	lender	ring
	Workflow, Advanced S	haders & Refining the	Rendering Pip	eline			
	Foundations of	Assignment					
Module 1	Lighting & Maya Interface	Documentation		15 H	lour	5	

BSM2065 – 3D Lighting and Rendering

Topics:			
• Topic	s:		
0	Introduction to Maya interfa	ce customization for ligh	ting & rendering.
0	Navigation techniques relev	ant for lighting: working	planes, viewing modes,
	and environment manipulation	on.	
0	Understanding light types (p	point, directional, area, sp	ot) and their properties.
0	Light attributes: intensity, co	olor temperature, falloff,	shadows, and advanced
	settings.	·	······································
0	dramatia ata)	late lighting setups for va	arious moods (realistic,
0	Introduction to the Maya rea	ndering environment and	setting up basic render
0	settings		setting up basic render
0	Material properties for realize	stic rendering: diffuse, sp	ecular, reflection, and
	their impact on light interac	tion.	, ,
0	Creating basic materials in I	Maya using Lambert and	Phong shaders.
0	Introduction to Physically B	ased Rendering (PBR) pr	rinciples (optional).
	Lighting Techniques &	Assignment	
Module 2	Rendering	Assignment	14 Hours
	Workflow	Documentation	
• Topic	S:		
0	Advanced light manipulatio	n: light linking, gobos, ar	nd falloff types for
	complex lighting effects.		••
0	Understanding the rendering	g process: from scene setu	up to final output.
0	Render settings in Maya: an	ti-aliasing, resolution, ou	tput formats.
0	Introduction to render passe	s for compositing flexibil	lity (beauty pass, shadow
	pass, etc.).	in nondonon (Montol Dovy	an alternative), actting we
0	render settings assigning m	aterials and basic trouble	or alternative): setting up
	Tender settings, assigning in	aterials, and basic trouble	snooting.
	Advanced Shaders &	Assignment	
Module 3	Refining the Rendering	Documentation	16 Hours
	Pipeline		
• Topic	S:		
0	Creating complex materials	with advanced shader pr	noiu or alternative).
0	scattering anisotronic materials	vith advanced shaders)	speries (subsurface
0	Introduction to lighting for s	specific purposes (animat	ion, product
5	visualization).	1 1 F F T (/ I
0	Advanced rendering techniq	ues: multi-pass rendering	g, using render layers for
	selective rendering, and opti-	imizing render settings fo	r efficiency.
0	Refining the rendering work	flow: optimizing lighting	s setups, material creation,
	and render settings for desir	ed results.	

List of Practical Tasks:

Level 1:

- 1. **Light Setup for a Product:** Choose a simple product (e.g., mug, apple) and create lighting setups for different moods (realistic, dramatic, product showcase). Experiment with light types and properties.
- 2. **Material Exploration:** Explore basic material properties (diffuse, specular, reflection) by creating materials for different objects (metal, wood, fabric) and observe how they interact with light.
- 3. **Interior Lighting Scene:** Create a simple interior scene (room, hallway) and experiment with basic lighting setups for different purposes (daytime, evening mood lighting). Render the scene with basic settings.

Level 2:

- 6. Advanced Light Manipulation: Create a scene with multiple light sources and explore advanced techniques like light linking and gobos. Analyse the impact on shadows and overall lighting effects.
- 7. **Render Pass Exploration:** Choose a scene from Module 1 and recreate it with render passes enabled (e.g., beauty pass, shadow pass). Experiment with compositing the passes in basic image editing software (optional) to understand their benefits.
- 8. **Render Settings for Different Outputs:** Render the same scene from Module 2 with different render settings (resolution, anti-aliasing) and compare the results. Analyze the trade-off between quality and rendering time.
- 9. Advanced Shaders for Complex Material: Choose a complex material (e.g., car paint, wet rock) and explore creating it using advanced shaders (VRay/Arnold or alternative). Experiment with advanced properties like subsurface scattering for realistic effects.
- 10. **Refined Rendering Workflow:** Choose a scene from Module 2 and optimize your lighting setups, material creation, and render settings. Aim to achieve a significant reduction in rendering time while maintaining quality.

Targeted Application & Tools that can be used: This curriculum ensures that students gain a solid foundation in Lighting and Rendering concepts, using software like Maya, progressing from basic skills to the creation of various refined rendered outputs. Autodesk Maya

Text Books

- 1. Chua, E., & Warrenfagundes. (2021). *The Art of Maya Rendering* (2nd ed.). John Wiley & Sons.
- 2. Sosa, J. (2019). *Maya Lighting & Rendering: A Beginner's Guide* (2nd ed.). Focal Press.
- 3. Mulani, R., Enciso, A., & Bader, D. (2014). *Advanced RenderMan: Creating Realistic Images* (2nd ed.). AK Peters/CRC Press.
- 4. Pharr, M., & Humphreys, G. (2010). *Physically Based Rendering: From Theory to Implementation* (3rd ed.). Morgan Kaufmann Publishers.
- 5. Maya: The Complete Guide (Latest Edition). Autodesk Official Press.
- 6. Michael Seymour and Jess Blakeley, **The Art of Maya Lighting: Mastering Light**, **Shadow**, **and Atmosphere** (Focal Press)
- 7. R. Ellis, Maya: Lighting and Rendering (Focal Press)
- 8. Colin Vaz, Essentials of Lighting for Animation, Games and VFX (Focal Press)

9. Jeremy Vaughan, High-Quality Rendering with Maya and Arnold (CRC Press)

References

- 70. <u>https://www.youtube.com/watch?v=njC8Z3knaDI</u> Maya Basics Lighting and Rendering
- 71. <u>https://www.youtube.com/watch?v=w8mDYJMA-Cg</u> 3 Point Lighting in Maya
- 72. <u>https://www.youtube.com/watch?v=iUfCRXbL9ZM</u> Arnold Lighting and Rendering
- 73. <u>https://www.youtube.com/watch?v=-EMcjBRBqos</u> Arnold Lighting and Rendering
- 74. <u>https://www.youtube.com/watch?v=kADhc51BkbI</u> Arnold Lighting and Rendering
- 75. <u>https://www.youtube.com/watch?v=t4yURtShogM</u> Arnold Exterior lighting
- 76. <u>https://www.youtube.com/watch?v=1MyoBjwIV64</u> Arnold's Lights and Incandescence

Topics relevant to "SKILLDEVELOPMENT": Information Communicated through

Lighting and Rendering, Scientific concepts involved, Types of Lights, Shadows, Occlusion,

Lighting Environments and Architecture for **SKILL DEVELOPMENT** through

Experiential Learning Techniques. This is attained through assignment components mentioned in course handout.

Catalogue	Mr. Vijay Kumar. D
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	10 th Board of Studies held on 4 th of July 2024
by the Board of	
Studies on	
Date of Approval	24 th AC dated 03.08.2024
by the Academic	
Council	

BSM2066 – Digital Compositing

Course Code: BSM 2066	Course Title: Digital Compositing		1	0	4	3
	Type of Course: 1] Program Core 2] Practical Integrated	L-T-P-C				

Version No.	1.0
Course Pre-	Nil
requisites	
Anti-requisites	NIL
Course Description	This course equips graduating students with foundational knowledge and skills to create professional-level visual effects using industry-standard compositing software, Adobe After Effects and Nuke. Students will gain technical proficiency in compositing techniques like layering, masking, keyframing, color correction, and green screen keying, developing expertise in both software functionalities. They will understand compositing principles, manipulate elements, create visual effects, and integrate elements seamlessly into real-world footage. The course emphasizes hands-on learning through practical assignments in After Effects and Nuke, with projects that progressively challenge students' skills. Professional practices and collaboration strategies are integrated, preparing students for real- world workflows in the film, television, and motion graphics industries.
Course Objective	The course's objective is to familiarize learners with Digital Compositing concepts and attain Skill Development of students by using Experiential Learning techniques.
Course Outcomes	 On successful Completion of this course students shall be able to Theory Component: 38. Understand: The core principles of digital compositing, including layering images and video, manipulating elements, and creating visual effects. Practical component: 39. Produce Proficiency in layering images and video footage for compositing projects. Skills in utilizing masking techniques (rotoscoping, shape masks) for precise image manipulation. 40. Develop Composited images and videos that demonstrate effective layering and masking techniques.
Course	foundations of Digital Compositing & After Effects, Intermediate Compositing
Content:	Techniques in After Effects & Nuke, Advanced Compositing Techniques &
	Professional Practices
Module 1	Foundations of Digital Compositing & After Effects Obse rvatio n/ Dem o/ 15 Hours Vide os/ Intera ction/

			Discu ssion	
	 Focus: This extern principles, core fuices, core fuices. Topics: Fundamernelements, After Effenessential to Layering a masking to Working weblend mode controls. Introducting principles Introduction concepts find the formation of the form	nded module establishes a inctionalities of Adobe A ntals of Compositing: Unc and creating visual effect cts Interface & Essential ools for compositing, and & Masking Techniques: L echniques (rotoscoping, s with Layers & Blend Mod les for compositing effect on to Keyframing & Anir to animate layer propertie on to Motion Tracking: E for integrating elements w cion to Nuke (Optional - node-based workflow, an	strong f fter Effe lerstandi s. Tools: E navigati earning hape ma- les: Unde s (multip nation: L es (positi xploring vith movi Last 2 v d basic c	oundation in compositing cts, and basic Nuke concepts. ng layering, manipulating xploring the workspace, ing the interface. to layer images/video, utilize sks) for precise manipulation. erstanding layer properties, oly, screen), and opacity cearning basic keyframing ion, scale, opacity) over time. basic motion tracking ng objects. veeks): Exploring the Nuke concepts for compositing
Module 2	Intermediate Compositing Techniques in After Effects & Nuke	Assignment Documentation	Obse rvatio n/ Dem o/ Vide os/ Intera ction/ Discu ssion	14 Hours

 compositing techniques in After Effects and core functionalities of Nuke for professional compositing. Topics: Advanced Layer Techniques: Exploring layer parenting, groups, precompositions, and adjustment layers for efficient workflows. Text & Motion Graphics in After Effects (Optional): Creating text elements and using animation presets/plugins (optional) for basic motion
 Topics: Advanced Layer Techniques: Exploring layer parenting, groups, pre- compositions, and adjustment layers for efficient workflows. Text & Motion Graphics in After Effects (Optional): Creating text elements and using animation presets/plugins (optional) for basic motion
 Topics: Advanced Layer Techniques: Exploring layer parenting, groups, pre- compositions, and adjustment layers for efficient workflows. Text & Motion Graphics in After Effects (Optional): Creating text elements and using animation presets/plugins (optional) for basic motion
 Advanced Layer Techniques: Exploring layer parenting, groups, pre- compositions, and adjustment layers for efficient workflows. Text & Motion Graphics in After Effects (Optional): Creating text elements and using animation presets/plugins (optional) for basic motion
 compositions, and adjustment layers for efficient workflows. Text & Motion Graphics in After Effects (Optional): Creating text elements and using animation presets/plugins (optional) for basic motion
• Text & Motion Graphics in After Effects (Optional): Creating text elements and using animation presets/plugins (optional) for basic motion
elements and using animation presets/plugins (optional) for basic motion
graphics.
• Color Correction Techniques: Understanding color correction tools (levels,
Curves) for color grading and balancing footage.
• Nuke workflows & Node-Based Compositing: Building compositing
worknows in Nuke using various nodes (read, grade, merge) for rear-world
Rotoscoping & Keying Techniques: Exploring advanced rotoscoping
workflows for clean element isolation and refining keying techniques
(chroma keying)
Working with Channels & Roto/Paint Tools (Nuke): Understanding
channels for managing color information and exploring roto/paint tools for
refining masks and creating effects.
Assignments: Students will create projects that involve: * Advanced layer techniques for
efficient compositing. * Color correction for compositing. * Basic motion graphics
elements in After Effects (Optional). * Compositing tasks using a node-based workflow
in Nuke.
Observati
on/
Demo/
Advanced Compositing Assignment Videos/
Module 3 Techniques & Documentation Interactio
Professional Practices
Discussio
n
Focus: This module delves into advanced compositing techniques, explores
professional practices, and prepares students for industry workflows.
Topics:
 Advanced Color Correction & Look Development: Exploring advanced
color correction techniques, color grading tools, and look development
processes. Matchmowing & Integration Techniques, Understanding wetching and
• Matchinoving & Integration Techniques: Understanding matchinoving
Dasies for integrating ciefficities into real-world toolage seatiliessity.
o riolessional compositing workflows a Conadoration. Learning about
collaborating with other departments in a production pipeline
Compositing for Specific Media (Optional): Exploring considerations for
different media (film television motion graphics) (depending on program

 Assignments: Students will create projects that involve: * Advanced keying techniques for green screen compositing. * Applying particle systems for visual effects in After Effects (Optional). * Completing advanced compositing tasks in Nuke using a node-based workflow Assignments: Students will complete a mini animation project, incorporating advanced techniques, receiving and implementing feedback, and creating a final presentation suitable for a portfolio or demo reel.
List of Practical Tasks: Level 1
 Compositing a Product Showcase: Layer a product image onto a background scene, utilizing masks (e.g., shape masks) to create a realistic product placement. Day-to-Night Transformation: Composite two images (daytime and night time) to create a smooth transition into a night time scene, using blend modes (e.g., multiply) to achieve the desired effect. Simple Text Animation: Create a title card with animated text using keyframes to control its position, scale, and opacity over time. Simulating Smoke with Masks: Use a smoke texture image and advanced masking techniques (e.g., rotoscoping) to create a dynamic smoke effect within a scene. Integrating a Moving Object: Track a moving object within footage (optional) and composite a separate element onto the moving object using basic motion tracking principles
List of Practical Tasks: Level 2
 Replicate a Simple Composite in Nuke: Recreate a basic composite completed in After Effects using the node-based workflow in Nuke. Colour Correcting in Nuke: Apply basic colour correction tools (e.g., levels) within Nuke to adjust the colour balance of a composite. Compositing with Pre-Compositions: Create a multi-layered composite scene with efficient organization by utilizing pre-compositions for specific elements or effects. Colour Grading for Mood: Apply colour correction techniques in After Effects to achieve a specific mood or atmosphere within your composite (e.g., warm and inviting, cool and futuristic). Green Screen Keying Challenge: Composite a character with green screen footage onto a background environment by refining keying techniques to achieve a clean separation between the character and the green screen.
Targeted Application & Tools that can be used:
In the field of digital compositing, several key applications and tools are essential for creating high-quality visual effects. Adobe After Effects and Nuke are the primary software used for compositing, offering powerful features for layering, masking, keyframing, and color correction. These tools enable the seamless integration of elements into real-world footage. For additional support, tools like Mocha Pro can be used for advanced planar tracking and rotoscoping, while Red Giant's Trapcode Suite offers a range of plugins for creating complex

	particle effects. These applications collectively provide the technical capabilities and creative flexibility needed for professional-level digital compositing projects.
	Textbooks
	1. Johnson, S., & Lainsbury, I. (2020). <i>After Effects Compositing and Visual Effects:</i> <i>The Practical Guide</i> (4th ed.). John Wiley & Sons
	 Cuevas, A. After Effects Apprentice: Classroom in a Book (Latest Edition). Adobe
	 Coyle, I. (2018). <i>Motion Graphics and Compositing with After Effects</i> (2nd ed.).
	Focal Press.4. Lemkin, R., & Allen, D. (2019). <i>Nuke Compositing: The Essential Guide</i> (3rd
	ed.). Focal Press. 5 Watking A & Watking I (2014) Learning Nuke (2nd ed.) Focal Press
	 6. Ron Brinkmann. The Art and Science of Digital Compositing: Techniques for
	 Visual Effects, Animation and Motion Graphics (Focal Press) 7. Chris Meyer. After Effects Apprentice (Peachpit Press)
	8. Aaron Blaise. Professional Digital Compositing: Essential Tools and Techniques (Focal Press)
	9. Steve Wright (Elsevier). Digital Compositing for Film and Video
	Visual Effects Artists (Focal Press)
	11. Jenney A. Okun . The VES manufook of Visual Effects (Focal Fress) 12. After Effects Classroom in a Book Adobe Press
	Natasha Rothera. Nuke for Compositors (Focal Press)
	References
	77. https://www.youtube.com/watch?v=sfkaCESPE5c- Compositing in After effects
	78. <u>https://www.youtube.com/watch?v=PHgZL8iSbNo&list=PLUHe1EXYRdlZPgU</u>
	<u>y4SqH18V14eEPcp1KZ</u> – Compositing in After effects complete project based
	tutorials
	79. https://www.youtube.com/watch?v=wZ9skxwLa7g&list=PLfURStsUG_8Tdw3h
	<u>E4Td9GHyf3l2D9lsR</u> – Complete digital compositing in Nuke
	Topics relevant to SKILL DEVELOPMENT: Digital compositing, rotoscope, match
	Techniques. This is attained through the assessment component mentioned in the course
	handout.
Catalogue	Mr. Prakash.KP
prepared by	Assistant Professor, Multimedia (SOD)
Recommended	10 th Board of Studies held on 4 th of July 2024
by the Board	
of Studies on	
Date of Approval by	24 ^{•••} AC dated 03.08.2024
the Academic	
BSM3038 – Digital Matte Painting

Course Code: RSM 3038	Course Title: Digital Matte Painting		1	0	4	3		
D 5141 3036	Type of Course: 1] Open Elective 2] Practical Integrated	L-T-P- C						
Version No.	1.0					<u> </u>		
Course Pre- requisites	Nil							
Anti-requisites	NIL							
Course Description	This course equips graduating students with the matte paintings. Starting with foundational softw students' progress to environment design, storyt advanced compositing. Through a combination culminating project, students build a strong port level and beyond.	This course equips graduating students with the skills to create stunning digital matte paintings. Starting with foundational software use and painting techniques, students' progress to environment design, storytelling through matte painting, and advanced compositing. Through a combination of lectures, exercises, and a culminating project, students build a strong portfolio, ready for the intermediate level and beyond.						
Course Objective	The objective of the course is to familiarize the Digital Matte Painting and attain Skill Develop Experiential Learning techniques.	The objective of the course is to familiarize the learners with the concepts of Digital Matte Painting and attain Skill Development of student by using Experiential Learning techniques.						
Course Outcomes	On successful Completion of this course student Theory Component: 1. Describe Core concepts of digital pai perspective, value studies. Practical component:	On successful Completion of this course students shall able to Theory Component: 1. Describe Core concepts of digital painting: color theory, composition, perspective, value studies. Practical component:						
	2. Develop the Ability to create believa 3. Produce Visually compelling enviror	ible and co	matte pa	envii aintir	onmen igs.	ts.		
Course Content:	Foundation Skills and Techniques, Building Environ Techniques and Project Development	ments and	Storytel	ling,	Interme	diate		

Module 1	Foundation Skills and		Assignment		15 Hours			
	Techniques		Documentation		15 110015			
	 Topics: 							
	 Digital Pa 	inting F	undamentals: Exploring basic dra	wing a	nd painting			
	principles	applicab	le to digital art. This includes and	revises	color theory,			
	compositio	on, persp	ective, and value studies.					
	• Software	ftware Introduction: Learning the core functionalities and workflows in						
	chosen sof	osen software (e.g., Photoshop). This includes brush tools, layers, masking, justments, and filters.						
	\sim Photo Ma	hoto Manipulation: Techniques for integrating and manipulating						
	photograp	notographs to create realistic environments. This covers basic selection tools,						
	color corre	ection, ar	a blending techniques.					
	• Perspectiv	ve Draw	ing: Understanding and applying t	basic pe	rspective drawing			
	principles	to create	believable and consistent environ	ments.	1 '			
	• Lighting a	and Atm	osphere: Introduction to lighting	heory a	and its application			
	in digital r	natte pai	nting. This includes creating differ	ent ligh	iting moods and			
			s like log and haze.					
	• Introduct	ION to M	atte Painting Techniques: Explo	ring bas	sic matte painting			
	WORKHOWS	5. Ims m	ciudes painting techniques for crea	ung sk	y replacements, set			
	extensions	, and add	ling distant elements.					
	Building Environments	and	Assignment					
Module 2	Storytelling	anu	Documentation		14 Hours			
	• Topics:		Documentation					
	\sim Topics.	ent Des	ign• Understanding how to design	and bui	ld visually			
	compelling	g enviror	ments for matte paintings. This in	cludes i	researching			
	reference	materials	creating mood boards, and establ	ishing a	a consistent style.			
	• Texturing	Techni	ques: Learning techniques for crea	ting rea	alistic textures for			
	various su	, rfaces (e	.g., rock, grass, wood) using brush	es, proc	edural textures.			
	and photo	manipul	ation.	× 1	,			
	• Advanced	Paintin	g Techniques: Expanding paintin	g skills,	exploring			
	techniques	s for crea	ting complex details, such as vege	tation, l	ouildings, and			
	distant lan	dscapes.						
	 Matching 	Technic	ques: Mastering techniques for sea	mlessly	v integrating matte			
	paintings i	nto live-	action footage. This includes color	correc	tion, lighting			
	matching,	and dept	h manipulation.					
	 Storytellin 	ng throu	gh Matte Painting: Understandin	g how a	matte paintings			
	contribute	to visual	storytelling in film and video. Th	is explo	ores portraying			
	mood, sett	ing the s	cene, and establishing scale.					
			Assignment					
Module 3	Intermediate Technique	s and	Documentation		46.0			
	Project Development				16 Hours			

Topics:
• Introduction to Compositing: Basic compositing techniques to integrate various elements (e.g., painted elements, 3D models) into a single cohesive
image.
realistic details and textures.
• 3D Integration: Introduction to integrating basic 3D models with matte
paintings for increased realism and depth.
• Advanced Compositing Techniques: Exploring advanced compositing techniques such as advanced masking, motion blur, and particle effects
 Matte Painting for Different Genres: Understanding how matte painting
adapts to different film genres, such as sci-fi, fantasy, and historical films.
• Project Development: Students develop and execute a self-directed matte
painting project, applying learned skills and techniques. This includes creating
 Critique and Portfolio Development: Students receive feedback on their
projects and learn how to present their work effectively for portfolio
development.
 List of Practical Tasks: Level1
1. Create 2 digital paintings exploring basic color theory concepts (primary/secondary
colors, complementary colors) and compositional techniques (rule of thirds, leading
lines).
2. Select a photograph and manipulate it to create a new environment. Apply techniques like color correction, blending, and basic selection tools to achieve a realistic outcome
3. Create a digital environment using one-point perspective, focusing on accurate
vanishing points and consistent horizon lines.
4. Create 2 digital paintings depicting the same environment under different lighting
conditions (e.g., morning light, sunset). Experiment with lighting theory to create distinct moods
distinct moods.
List of Practical Tasks: Level2
5. Choose a photograph with an unremarkable sky and replace it with a digitally painted
sky of your own creation. Ensure seamless integration through color matching and
perspective alignment.
o. Match it Op:: Choose a live-action lootage cip and create a matter painting that seamlessly integrates into the scene. Focus on color correction, lighting matching, and
depth manipulation for a believable result. (This can be done with freely available
sample footage)
7. Develop a short storyboard depicting a scene. Create a digital matter painting based on the storyboard focusing on using visual elements to convey the parenting and model
the storyboard, rocusing on using visual elements to convey the narrative and mood.

	Targeted Application & Tools that can be used: T his curriculum ensures that students gain a solid foundation in Digital Matte Painting, using software is like Photoshop, progressing from basic skills to the creation of various visually compelling environments for matte paintings. Adobe Photoshop, After Effects, Nuke
	 Text Books Lynch, C., & Blaise, A. (2019). Digital Painting for Beginners: Essential Skills and Techniques for Creating Stunning Art (1st ed.). John Wiley & Sons. Valentine, S., & Browne, A. (2021). Learning Photoshop for Digital Painting: A Beginner's Guide to Creating Art on Your Computer (1st ed.). John Wiley & Sons. Niederhauser, J., & Waugh, R. (2015). The Art of Scenic Design: A Practical Guide for Theatre, Film, and Television (4th ed.). Routledge. Roberson, D. (2005). Matte Painting: Creating Landscapes for Film and Television (2nd ed.). Focal Press. Gossett, C., & Blaise, A. (2011). Advanced Techniques for Digital Painters (1st ed.). Focal Press.
	References 80. https://www.youtube.com/watch?v=PX5bj9aPrqI – How to Create Matte Painting ! Simple & Easy in Photoshop 81. https://www.youtube.com/watch?v=4S_9WoljIIY – Matte Painting Manipulation 82. https://www.youtube.com/watch?v=qknzkwcZ9fY - Photo Manipulation In Photoshop CC 83. https://www.youtube.com/watch?v=ukef_0mQLH8&list=PLMfnrlzyrus2ykJvavea8_w HXnDL8M4vW – Matte Painting Series
	Topics relevant to SKILL DEVELOPMENT: Learning digital matte painting fundamentals for Matte painting, set extension, compositing, environment design for Skill Development through Experiential Learning Techniques. This is attained through the assessment component mentioned in the course handout.
Catalogue prepared by	Mr. Vijay Kumar. D Assistant Professor, Multimedia (SOD)
Recommended by the Board of Studies on	10th Board of Studies held on 4th of July 2024
Date of Approval by the Academic Council	

BSM 3002 Summer Internship

Course Code: BSM3002	Course Title: Summer Internship Type of Course: NTCC, School Core	L-T-P- C	0	0	0	4
Version No.	1.0					

Course Pre- requisites	Knowledge and Skills related to all the courses studied in previous semesters.					
Anti-requisites	NIL					
Course Description	Students observe art, craft, technics and Culture in action, develop an awareness of the method of design explorations, and often get an opportunity to see, study, manipulate and apply design principles in value additions. Students learn about the implementation of the principles of design they have learnt in class, when they observe multidisciplinary teams of experts from different streams of design, economics, and management deal with techno- economic problems at the micro and macro levels. Finally, it enables them to develop and refine their language, communication and inter-personal skills, both by its very nature, and by the various evaluation components, such as seminar, group discussion, project report preparation, etc. The broad-based core education, strong in design principles rich in heuristics, experiential learning and design thinking tools provide the foundation necessary for the student to understand appropriately the nature of real-life problems. The students have options to pursue this course as either Project Work and Dissertation at the university, or Project Work in an Industry/ Company/ Research Laboratory, or Internship Program in an Industry/Company.					
Course Objectives	The objective of the course is to familiarize the learners with the concepts of Tasks based learning and attain Employability Skills through Experiential Learning techniques.					
Course Outcomes	 On successful completion of this course the students shall be able to: Identify the design problems related to local, regional, national or global needs. Apply appropriate techniques or modern design tools for solving the potential problem Design the tasks as per the standards and specifications. Interpret the events and results for meaningful conclusions. Appraise project findings and communicate effectively through scholarly publications. 					
Catalogue prepared by	Mr. Melwin Samuel Assistant Professor, Multimedia (SOD)					
Recommended bythe Board of Studies on	4 th BOS, held on 10th August 2021					
Date of Approval bythe Academic Council	16th Academic Council Meeting held on 23rd October 2021					

BSM3004 Mini Project

Course Code: BSM3004	Course Title: Mini Project Type of Course: NTCC, School Core	L-T-P- C	0	0	0	5			
Version No.	1.0	1.0							
Course Pre- requisites	Knowledge and Skills related to all the couse semesters.	rses studied	in p	revi	ous				
Anti-requisites	NIL								
Course Description	Students can explore multimedia design concepts and techniques firsthand n the Multimedia Mini Project course. Students will learn how to create interactive nultimedia material, including graphics, audio, video, and animation, through a series of hands-on projects. This course, which places equal emphasis on technical proficiency and creativity, gives students the tools they need to create captivating nultimedia presentations and projects. The students have options to pursue this course as either Project Work and Dissertation at the university, or Project Work in an Industry/ Company/ Research Laboratory, or Internship Program in an Industry/Company								
Course Objectives	The objective of the course is to familiarize the learners with the concepts of Tasks based learning and attain Employability Skills through Experiential Learning techniques.								
Course Outcomes	 On successful completion of this course the students shall be able to: Develop interactive multimedia presentations integrating various media elements, including graphics, audio, video, and animation. Utilize audio and video editing techniques to enhance and optimize multimedia content, ensuring high-quality output. Apply fundamental design principles such as color theory, typography, layout, and composition to create visually appealing multimedia content. Create dynamic, multi-media presentations by combining animation, audio, video and graphics with other media elements. 								
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Recommended by the Board of Studies on	4 th BOS, held on 10 th August 2021	_							
Date of Approval bythe Academic Council	16 th Academic Council Meeting held on 23 rd	October 202	21						

DES2140 – Project Management Essentials for Designers

Course	Course	Title: Project Management Essentials		3	0	0	3	
Code: DES2140	for Desi	gners						
			L-T-					
			P-C					
	Type of	Course: 1] Open Elective						
		2] Theory						
Version		1.0				l	l	
No.								
Course		Nil						
Pre-								
requisites								
Anti-		NIL						
requisites								
Course		This open elective equips design students (B	achelor (of Des	ign & I	Bachel	or of	
Description		Science in Multimedia) with the fundamenta	l principle	es and	practi	cal too	ols of	
		project management. Ihrough lectures, discussions, and hands-on activities,						
		develop essential skills for planning organizing scheduling and executing design						
		projects effectively. This course is designed for students with no prior project						
		management experience.			n no p	nor pr	oject	
Course		This course equips design and multimedia stu	udents wi	ith Ski	l Deve	lopme	ent in	
Objective		project management fundamentals through Pa	articipativ	/e lear	ning. S	tudent	s will	
		master core concepts, apply methodologies to	master core concepts, apply methodologies to design projects, develop planning					
		and communication skills, and learn to evaluate	ate progre	ess and	d mana	ige risl	ks for	
		successful project execution	1 / 1	11.1	11 /			
Course		On successful completion of this course stu	idents sha	all be	able to)		
Outcomes		41. Define key project management ter	minology	y and e	explair	i the		
		project life cycle.						
		42. Use project management tools and templates for planning,						
		43. Identify and manage project risks	ensuring	proiec	t deliv	verable	28	
		are met on time and within budget.		L. 0100		Juon		

Course Content:	Introduction to P Monitoring and C	Introduction to Project Management, Planning and Execution, Project Monitoring and Control,						
Module 1	Introduction to Project Management	Assignment Documentation	15 Hours					
	Focus: • Topics: • Introduction • Project Life Control, Cla • Project Man • Project Sco • Project Stak	 Focus: Topics: Introduction to Project Management Project Life Cycle (Initiation, Planning, Execution, Monitor Control, Closure) Project Management Frameworks (Agile, Waterfall, Hybric Project Scope Management Project Stakeholder Management 						
Module 2	Planning and Execution	Assignment Documentation	15 Hours					
	 Topics: Work Break Project Sch Project Resources) Communication Collaboration 	 Work Breakdown Structure (WBS) Development Project Scheduling Techniques (Gantt Charts, PERT Charts) Project Resource Management (Time, Budget, Human Resources) Communication Management Collaboration Tools for Designers (e.g., Slack, Google Drive) 						
Module 3	Project Monitoring and Control	Assignment Documentation	16 Hours					
	Focus: • Topics: • Project Risk • Project Mon Managemen • Project Cha • Project Con • Project Con • Project Perf Activities: • Identifying and mit • Project Tracking Ex- Value Management	k Management (Iden nitoring and Control nt) nge Management nmunication Strateg formance Evaluation igating potential rish xercise: Monitoring t techniques	tification, Analysis, Mitigation) Techniques (Earned Value ies n ks in a design project scenario project progress using Earned					

 Individual Project: Developing a project management plan for a self-directed design project Course Reflection: Evaluating personal learning outcomes and course effectiveness.
List of Practical Tasks:
Level1:
 Case Studies: Analyzing successful and unsuccessful design projects Team Building Exercise: Defining project scope and identifying stakeholders for a design project Project Management Software Introduction (e.g., Trello, Asana)
List of Practical Tasks:
Level2:
 4. Developing a WBS for a design project scenario 5. Creating a project schedule using a chosen scheduling tool 6. Team Project: Planning a collaborative design project using project management tools Targeted Applications and Tools can be used
According to Project Management Essentials for Designers, software like Microsoft Project and Smartsheet helps with project planning and scheduling, while tools like Trello and Asana are essential for task management and workflow structure. Teams can communicate more effectively thanks to collaboration technologies like Microsoft Teams and Slack, and Adobe Creative Cloud guarantees that creative materials are integrated seamlessly. With the use of these tools, designers may efficiently organize, carry out, and supervise projects, guaranteeing the prompt and successful completion of design work.
Text Books
 Design Management: A Handbook (2nd Edition) by Richard Buchanan
(Ealtor)

	 Project Management for Dummies (6th Edition) by Stanley E. Portny
	 The Art of Project Management by Scott Berkun
	References
	84. H. Kerzner, Harold Kerzner's Project Management: A Systems Approach
	to Planning, Scheduling, and Controlling Projects (12th Edition), John
	Wiley & Sons, 2017.
	85. W. Lipke, The Design Thinking Process: A Guide for Designers of
	Strategy, Innovation and Change (5th Edition), Bloomsbury Publishing,
	2018.
	86. Project Management Institute, A Guide to the Project Management Body
	of Knowledge (PMBOK Guide) (Sixth Edition), Project Management
	Institute, 2017.
_	Topics relevant to SKILL DEVELOPMENT: This course equips design
	students with project management skill Development through Participative
	Learning Techniques. Students engage in hands-on activities and teamwork, fostoring practical abilities in planning communication and risk management for
	successful design projects. This is attained through assessment component
	mentioned in course handout.
Catalogue	Mr. B. S. Abhilash
prepared by	Assistant Professor
	Mr. Abhinav Srivastava
	Assistant Professor
	SOD
Recommended	10 th Board of Studies held on 4 th of July 2024
by the Board	
of Studies on	
Date of	24 th AC dated 03.08.2024
Approval by	
the Academic	
Council	

Course Code: BSM3006	Course Title: On Job Training/Internship/In-House Live Project Type of Course: NTCC, Program Core	L-T-P- C	0	0	0	6			
Version No.	1.0	1.0							
Course Pre- requisites	Knowledge and Skills related to all the courses studied in previous semesters.								
Anti-requisites	NIL								
Course Description	Students observe art, craft, technics and Culture in action, develop an awareness of the method of design explorations, and often get an opportunity to see, study, manipulate and apply design principles in value additions. Students learn about the implementation of the principles of design they have learnt in class, when they observe multidisciplinary teams of experts from different streams of design, economics, and management deal with techno-economic problems at the micro and macro levels. Finally, it enables them to develop and refine their language, communication and inter-personal skills, both by its very nature, and by the various evaluation components, such as seminar, group discussion, project report preparation, etc. The broad-based core education, strong in design principles rich in heuristics, experiential learning and design thinking tools provide the foundation necessary for the student to understand appropriately the nature of real-life problems. The students have options to pursue this course as either Project Work and Dissertation at the university, or Project Work in an Industry/ Company/ Research Laboratory, or Internship Program in an								
Course Objectives	The objective of the course is to familiari of Tasks based learning and attain Employa Learning techniques.	ze the learn ability Skill	ners s thr	wit ou	h the co gh Exper	ncepts riential			
Course Outcomes	 On successful completion of this course to a successful completion of this course to a successful completion of this course to a successful complete the successful communications. On successful completion of this course to a successful complete the successful complete the successful communications. 	the student to local, re dern desigr s and specif neaningful unicate effe	s sh gion too icati conc ective	all al, ls f con clus ely	be able i national or solvir s. sions. through	to: or ng the			
Catalogue preparedby	Mr. Melwin Asst. Professor SOD Multimedia 10 th Board of Studies held on 4 th of July 2	2024							
Recommended bythe									

BSM 3006 On Job Training/Internship/In-House Live Project

Board of Studies on	
Date of Approval by the Academic Council	24 th AC dated 03.08.2024

BSM 3005 Portfolio Development

Course Code: BSM3005	Course Title: Portfolio Development Type of Course: NTCC, School Core	L-T-P- C	0	0	0	6		
Version No.	1.0							
Course Pre- requisites	Knowledge and Skills related to all the courses studied in previous semesters.							
Anti-requisites	NIL							
Course Description	The Multimedia Portfolio Development course is designed to guide students in creating a comprehensive and professional portfolio showcasing their multimedia skills and projects. Through a series of workshops, critiques, and hands-on activities, students will learn how to curate and present their work effectively across various multimedia platforms. Emphasizing both artistic creativity and technical proficiency, this course prepares students to confidently display their talents to potential employers or clients.							
Course Objectives	The objective of the course is to familiarize the learners with the concepts of Tasks based learning and attain Employability Skills through Experiential Learning techniques.							
Course Outcomes	 On successful completion of this course the students shall be able to: 15. Present multimedia projects effectively within the portfolio, including images, videos, audio clips, animations, and interactive elements. 16. Apply design principles such as layout, typography, color theory, and visual hierarchy to create an aesthetically pleasing and professional portfolio. 17. Develop the ability to confidently discuss and present their portfolio during job interviews, client pitches, or freelance opportunities. 18. Create a cohesive and visually appealing portfolio that demonstrates a range of skills and styles. 							
Catalogue prepared by	Mr. Melwin Samuel Assistant Professor, Multimedia (SOD)							
Recommended by the Board of Studies on	10 th Board of Studies held on 4 th of July 2	024						
Date of Approval by the Academic Council	24 th AC dated 03.08.2024							

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