

Maulana Abul Kalam Azad University of Technology, WB
(Formerly known as West Bengal University of Technology)
Syllabus of B. Sc. In Animation & Film Making
Effective from academic session 2023-24

Semester- 7 (HONOURS)

Paper Name: Introduction to Film making

Paper Code: BAFM 701

Credit Points – 2

Total Contact Hours – 30

Course Objective: The course is designed to provide complete process of CG animation film making. How to start from story to script and complete a total animation production pipeline.

Course Outcome:

SL No.	Course Outcome	Mapped Unit
1	Remembering	M1, M2
2	Understanding the course	M1, M2, M3
3	Applying the general problem	M2, M3
4	Analyze the problems	M2, M3,
5	Evaluate the problems after analyzing	M3,
6	Create using the evaluation process	M3

Module Number	Content	Total Hours	%age of questions	Covered CO	Covered PO	Blooms Level (If applicable)	Remarks (If any)
M1	Ability to design own original story & concept.	10	25	1	1,5		
M2	Ability to create script & story board from story.	10	25	1,2,3,4,	1,5		
M3	Ability to design 3Dassets of the story.	10	50	2,3,4,5,6	1,5		
	Total Lecture	30	100				

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BAFM 701 (2 Credits) – 30 hours

SL. No.	Topic/Module	Hours
1	Module 1 - Ability to design own original story & concept: Detailed Introduction of Story & Script.	10
2	Module 2 – Ability to create script & story board from story: - What is Story board. - Detailed process of story board.	10
3	Module 3 – Ability design 3D assets of the story: The basic process of 3D assets modelling from the story board.	10

Suggested Software: 1. Maya
2. Photoshop
3. Adobe Animate

Suggested Reading:

1. A Complete Guide to Animated Filmmaking--From Flip-Books to Sound Cartoons to 3- D By Kit Laybourne.

Paper Code: BAFM 791

Credit Points – 3

Total Contact Hours – 90

BAFM 791 (3 Credits) – 90 hours

SL No.	Topic/Module	Hours
1	Module 1 - Ability to design own original story & concept: Ideation and Brainstorming: Techniques for generating original concepts, themes, and premises.	15

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	• Character Development: Creating compelling protagonists, antagonists, and supporting characters with clear motivations and arcs. • Plot Structure: Outlining the narrative using standard structures (e.g., Three-Act Structure) and identifying key plot points.	
2	Module 2 – Ability to create script & story board from story: • Concept Presentation: Developing a concise logline and a detailed synopsis or treatment for pitching the story. • Scene Breakdown: Analyzing the script to determine camera angles, character blocking, and visual requirements for each moment. • Storyboarding: Sketching visual representations of key scenes (panels) with accompanying notes on camera movement, sound, and timing.	15
3	Module 3 – Ability design 3D assets of the story: • Development from concept: The basic process of 3D assets modelling from the story board. • Modeling Key Assets: Block out and finalize high-poly/low-poly models based on the concept art. • Rigging and Weighting: Build full character rigs and test successful mesh deformation.	30
4	Module 3 – Ability to create 3D animation for the film: • The basic process of 3D animation from the story board. • Layout and Staging: Import all final assets and set up the scene layouts and camera movements within the 3D environment. • Keyframe Animation: Apply principles of animation (timing, spacing, squash and stretch) to key shots and sequences. • Final Rendering and Compositing: Render the final shots and composite them with sound and music for the final film output.	30

Suggested Software: 1. Maya
2. Photoshop
3. Adobe Animate
4. After effects

Suggested Reading: A Complete Guide to Animated Filmmaking--From Flip-Books to Sound Cartoons to 3-D By Kit Laybourne.

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Paper Name: Research Methodology
Paper Code: BAFM 702
Credit Points - 5 Total Contact Hours – 75

Course Objective: The course is designed to provide an introduction to Research Methodology. Students will be able to develop a Research for different industries. They can understand the implementation and Research Methodology.

SL No.	Course Outcome	Mapped modules
1	Remembering	M1, M2
2	Understanding the course	M1, M2, M3, M4
3	Applying the general problem	M3, M4
4	Analyze the problems	M3, M4, M5
5	Evaluate the problems after analyzing	M3, M4, M5
6	Create using the evaluation process	M3, M4, M5

Module Number	Content	Total Hours	%age of questions	Covered CO	Covered PO	Blooms Level (If applicable)	Remarks (If any)
M1	Introduction to Research	10	20	1	1		
M2	Research Design and Hypothesis	10	20	2	1		
M3	Literature Review and Data Collection	15	15	3	1		
M4	Data Analysis and Interpretation	15	20	4	1		
M5	Report Writing and Presentation	10	25	5	1		

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SL No.	Topic/Module	Hours
1	Module 1- Introduction to Research: - Definition, objectives, and significance of research - Types of research: Basic, Applied, Descriptive, Analytical, Quantitative, Qualitative - Research ethics and plagiarism - Role of research in academic and professional domains	15
2	Module 2- Research Design and Hypothesis: - Components of a research design - Research problem identification and formulation - Variables: Independent, dependent, extraneous - Hypothesis: Meaning, types, formulation, and testing - Sampling techniques: Probability and non-probability sampling	15
3	Module 3- Literature Review and Data Collection: - Purpose and steps of literature review - Sources: Primary and secondary - Online databases and referencing tools (Google Scholar, JSTOR, Mendeley, Zotero) - Techniques of data collection: Observation, interview, survey, case study - Questionnaire design and pilot testing	15
4	Module 4- Data Analysis and Interpretation: - Quantitative vs qualitative data - Descriptive statistics: Mean, median, mode, standard deviation - Introduction to statistical tools (SPSS/R/Excel) - Coding and thematic analysis in qualitative research - Graphical representation of data: Bar chart, pie chart, histogram, tables	15
5	Module 3- Report Writing and Presentation: - Structure of a research report: Abstract, introduction, methodology, results, discussion, conclusion, references - Citation styles (APA, MLA, Chicago) - Avoiding plagiarism: Paraphrasing and citation tools - Oral presentation of research findings: Dos and don'ts - Use of visual aids (PPT, infographics)	15

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Suggested Software:

1. MS Office

Paper Name: Summer Internship
Paper Code: BAFM -781
Credit Points – 4
Total Contact Hours – 120

Refer to Appendix – 1A

Course Code: BAFM 781

Course Title: Summer Internship

Course Code	:	SEC 782
Course Title	:	Summer Internship
Number of Credits	:	4
Course Category	:	SEC

Course Objective(s):

The summer internship aims to provide students with an integrative learning experience that combines professional work in a real-world organization with rigorous academic research. Through an action research project, students will develop and apply theoretical knowledge to practical challenges, enhancing their problem-solving, critical thinking, and communication skills. This course aims to bridge the gap between academic study and professional practice, preparing students for successful careers in their chosen fields.

Summer Internship Student Engagement Process

An internship/capstone project is a structured, hands-on learning experience integrating academic knowledge with pre-professional work activities. It mutually benefits both the student-intern and the host organization. Interns apply foundational skills from their studies to real-world tasks, enhancing their practical experience. Placement sites outline clear expectations, duties, and performance goals for the interns. They also offer regular supervision and feedback to guide the interns' development. This experiential learning helps students build valuable industry-specific skills, gain insights into their chosen field, and improve their employability upon graduation.

SL No.	Topic/Module	Hours
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Step 1	Orientation Session: The orientation session for the internship/capstone project is designed to provide students with a comprehensive overview of what to expect and how to succeed in their upcoming professional experience. The session aims to bridge the gap between academic learning and practical application in a real-world setting.	20
Step 2	Identify an internship: Students research opportunities that align with their career goals and academic background. They explore various platforms, such as online job boards, networking events, and professional associations, to find positions that offer relevant hands-on experience and skills in their chosen field.	20
Step 3	Internship agreement Form: The Student, Mentor, and internship Coordinator in the Industry will complete the internship agreement form.	20
Step 4	Start of Internship: The internship lasts eight weeks. Interns are expected to commit to 20 hours per week, allowing for a balanced integration of work and learning. The internship mentor will arrange specific schedules. This structure ensures that interns gain substantial experience while accommodating any academic commitments. Regular check-ins and progress reviews will be conducted to support intern development and address any challenges, ensuring a productive and enriching internship experience.	20
Step 5.	Submission of Report: Front Page: Student Name, Course, Internship Company, Duration, Mentor Internship Agreement Form Internship Certificate Introduction & background of the Company Roles & responsibilities as an Intern Weekly work allotment & completion report Challenges & Solutions Learning from the internship Conclusion	20
Step 6.	Internship Evaluation: The Viva Voce for internship evaluation is an oral exam where interns present their experiences, learning, and contributions. It involves summarizing their role, key projects, and applied skills. Interns discuss the knowledge gained, application of academic theories, and challenges faced, including how they were addressed. They reflect on their professional development and how the internship influenced their career goals. Feedback from supervisors and industry insights are also shared. Examiners ask questions to delve deeper into the intern's understanding and experiences. This evaluation assesses the intern's ability to articulate their growth and readiness for professional work. The review of the work done by students will be carried out after two weeks of report submission. The internal examiner will evaluate the student's submission.	20

Course Outcome:

After the course, the outcomes are as follows under

1. Application of theoretical knowledge to real-world scenarios.
2. Development of professional skills and networking opportunities.

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3. I understand workplace culture and dynamics.
4. Hands-on experience in a chosen field.
