

केन्द्रीय प्रौद्योगिकी संस्थान कोकराझार
CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR

Deemed to be University, MHRD, Govt. of India

Kokrajhar, BTR, Assam 783370

www.cit.ac.in



Syllabus
For Multimedia Communication & Design

B.Des Programme

STUDY PLAN

Total Credit Requirements: 284

Total Number of Semesters: 8

1st YEAR

SEMESTER I					
CODE	COURSE TITLE	L	T	P/S*	Credit
UHSS101	Communication Skills	2	0	0	4
UMCD101	Introduction to Design	1	0	0	2
UMCD102	Fundamentals and Principles of Art	1	0	0	2
UMCD103	Computer Fundamentals and Operation	2	0	0	4
UHSS171	Communication Skills (Lab)	0	0	2	2
UMCD171	Introduction to Design (Lab)	0	0	2	2
UMCD172	Fundamentals and Principles of Art (Lab)	0	0	3	3
UMCD173	Computer Fundamentals and Operation (Lab)	0	0	2	2
UMCD174	Drawing and Illustration Technique	0	0	5	5
UMCD191	Design Studio – I (Digital Drawing Technique)	0	0	5	10
Contact Hours: 25		6	0	19	36

SEMESTER II					
CODE	COURSE TITLE	L	T	P/S*	Credit
UHSS201	Professional Ethics & Human Value	2	0	0	4
UMCD201	Introduction to Multimedia Communications	2	0	0	4
UMCD202	Fundamentals of Animation Design	2	0	0	4
UMCD203	Introduction to Graphic Design	1	0	0	2
UMCD204	History of Art and Appreciation	2	0	0	4
UMCD271	Introduction to Multimedia Communications (Lab)	0	0	2	2
UMCD272	Fundamentals of Animation Design (Lab)	0	0	2	2
UMCD273	Introduction to Graphic Design (Lab)	0	0	2	2
UMCD291	Design Studio – II (Graphic Design)	0	0	5	10
Contact Hours: 20		9	0	11	34

Total Credits of 1st Year: 70

2nd YEAR

SEMESTER III					
CODE	COURSE TITLE	L	T	P/S*	Credit
UMCD301	Multimedia Design Fundamentals	2	0	0	4
UMCD302	Concept of Storyboarding & Script Writing	1	0	0	2
UMCD303	2D Animation Techniques	1	0	0	2
UMCD304	Introduction to Photography and Videography	1	0	0	2
UMCD371	Multimedia Design Fundamentals (Lab)	0	0	2	2
UMCD372	Concept of Storyboarding & Script Writing (Lab)	0	0	4	4
UMCD373	2D Animation Techniques (Lab)	0	0	2	2
UMCD374	Introduction to Photography and Videography (Lab)	0	0	2	2
UMCD375	Clay Modeling	0	0	4	4
UMCD391	Design Studio – III (2D Animation)	0	0	5	10
Contact Hours: 24		5	0	19	34

SEMESTER IV					
CODE	COURSE TITLE	L	T	P/S*	Credit
UMCD401	3D Modeling and Texturing	1	0	0	2
UMCD402	Rigging for 3D Animation	1	0	0	2
UMCD403	Web Design Technology	1	0	0	2
UMCD404	Concept of Film Making	1	0	0	2
UMCD471	3D Modeling and Texturing (Lab)	0	0	2	2
UMCD472	Rigging for 3D Animation (Lab)	0	0	4	4
UMCD473	Web Design Technology (Lab)	0	0	4	4
UMCD474	Concept of Film Making (Lab)	0	0	2	2
UMCD41*	Elective - I	0	0	4	8
UMCD 491	Design Studio – IV (Modeling & Texturing)	0	0	5	10
Contact Hours: 25		4	0	21	38

Total Credits of 2nd Year: 72

3rd YEAR

SEMESTER V					
CODE	COURSE TITLE	L	T	P/S*	Credit
UHSS501	Industrial Management and Entrepreneurship	3	0	0	6
UMCD501	3D Animation Technique	1	0	0	2
UMCD502	Introduction to Programming	2	0	0	4
UMCD503	Audio Video Editing	1	0	0	2
UMCD571	3D Animation Technique (Lab)	0	0	2	2
UMCD572	Introduction to Programming (Lab)	0	0	4	4
UMCD573	Audio Video Editing (Lab)	0	0	4	4
UMCD51*	Elective - II (project based)	0	0	4	8
UMCD591	Design Studio – V (3D Animation)	0	0	5	10
Contact Hours: 26		7	0	19	42

SEMESTER VI					
CODE	COURSE TITLE	L	T	P/S*	Credit
UMCD601	Computer Generated Lighting and Rendering	1	0	0	2
UMCD602	Visual Effects & Digital Compositing	1	0	0	2
UMCD603	Introduction to Game Design	1	0	0	2
UMCD604	Creative Thinking Process and Methods	1	0	0	2
UMCD671	Computer Generated Lighting and Rendering (Lab)	0	0	4	4
UMCD672	Visual Effects & Digital Compositing (Lab)	0	0	2	2
UMCD673	Introduction to Game Design (Lab)	0	0	4	4
UMCD61*	Elective - III (project based)	0	0	4	8
UMCD691	Design Studio – VI(Visual Effects)	0	0	5	10
Contact Hours: 23		4	0	19	36

Total Credits of 3rd Year: 78

****Industrial Training Phase – II (During summer break tentatively in the month of JUNE – JULY)**

4th YEAR

SEMESTER VII					
CODE	COURSE TITLE	L	T	P/S*	Credit
UMCD701	Animation Production Design	1	0	0	2
UMCD771	Animation Production Design (Lab)	0	0	6	6
UMCD791	Minor Project	0	0	8	16
UMCD792	Design Management and Professional Practice (Industrial Presentation)	0	0	4	4
UMCD71*	Elective - IV (project based)	0	0	4	8
Contact Hours: 23		1	0	22	36

SEMESTER VII					
CODE	COURSE TITLE	L	T	P/S*	Credit
UMCD891	Major Project (Thesis Project)	0	0	8	16
UMCD892	Multimedia Design Research Seminar	0	0	4	4
UMCD81*	Collaborative Design Project & Seminar	0	0	4	8
Contact Hours: 16		0	0	16	28

Total Credits of 4th Year: 64

* Elective – I : Subjects		
Sl. No.	Subject code	Subjects
1.	UMCD 411	Graphic Design for Communication
2.	UMCD 412	Effective Mass Communication
3.	UMCD 413	Art of Acting and Voiceover For Animation
3.	UMCD 41*	Any other subject offered from time to time with the approval of the university.

* Elective – II : Subjects		
Sl. No.	Subject code	Subjects

1.	UMCD 511	Instructional Design and Multimedia
2.	UMCD 512	Digital Sculpting
3.	UMCD 513	Advanced Texturing Techniques
3.	UMCD 51*	Any other subject offered from time to time with the approval of the university.

*** Elective – III : Subjects**

Sl. No.	Subject code	Subjects
1.	UMCD 611	New Media and Interaction
2.	UMCD 612	Video Production and Editing
3	UMCD 613	Digital Design and Animation
4.	UMCD 61*	Any other subject offered from time to time with the approval of the university.

*** Elective – IV : Subjects**

Sl. No.	Subject code	Subjects
1.	UMCD 711	Game Design and Production Process
2.	UMCD 712	Lighting with Arnold/Mental Ray
3.	UMCD 713	Editing and Compositing Techniques
3.	UMCD 71*	Any other subject offered from time to time with the approval of the university.

*** Elective – V : Subjects**

Sl. No.	Subject code	Subjects
1.	UMCD 811	Tangible User Interface
2.	UMCD 812	Collaborative Design Project & Seminar
3.	UMCD 81*	Any other subject offered from time to time with the approval of the university.

Note:

- L:** Lecture period, **T:** Tutorial Period, **P/S*:** Practical period/Studio Session, **C:** Credits. (**P/S***- In Design Curriculum, instead of Practical Classes, Studio Classes are conducted for better understanding of the subjects through hands-on experience, live projects and discussions).
- **Industrial Training**
Industrial Training Phase – I (in IV Semester) and Phase – II (in VI Semester) are expected to be attended by the students during summer break either in the Industry sector of their choice or in the Department under the guidance of any of the faculty members. Students have to give a presentation on the training during the next semester session. There will be no credit given here.

Credits

1 h Lecture (L) per week	2 credit
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1 h Studio Project	2 credit
1 h Practical (P) per week	1 credit
1 h Seminar / Training / Industrial Training	1 credit

Consolidated statement of Total Credits in each Semester

Semester	L	T	P/S*	C
I	6	0	19	36
II	9	0	11	34
III	5	0	19	34
IV	5	0	21	38
V	7	0	19	42
VI	4	0	19	36
VII	1	0	22	36
VIII	0	0	16	28
Total	36	0	146	284
