BIRLA INSTITUTE OF TECHNOLOGY – MESRA, RANCHI NEW COURSE STRUCTURE – To be effective from Academic Session 2023-24 Based on NEP 2020 BACHELOR OF SCIENCE HONOURS IN ANIMATION & MULTIMEDIA

SEMESTER WISE CREDIT DISTRIBUTION (SUMMARY)

	Major (MJ)	6.5	
	Minor (MS)	4	
	Multidisciplinary (MD)	3	
FIRST	Ability Enhancement Courses (AEC)	1.5	
	Skill Enhancement Courses (SEC)	3	22
	Common Value-Added Courses for All UG (CVAC)	4	
	Major	8	
	Minor	4	
	Multidisciplinary	3	
	Ability Enhancement Courses (Language)	2	
SECOND	Skill Enhancement Courses (SEC)	3	22
	Common Value-Added Courses for All UG	2	
	Summer Internship	4	
	(only for those students who are going to choose exit option after one year)		
	Major	9	
	Minor	4	
THIRD	Multidisciplinary	3	
	Ability Enhancement Courses (Language)	3	22
	Skill Enhancement Courses (SEC)	3	
	Major	15.5	
FOURTH	Minor	5	
	Ability Enhancement Courses (Language)	1.5	22
	SECOND	FIRST Ability Enhancement Courses (AEC) Skill Enhancement Courses (SEC) Common Value-Added Courses for All UG (CVAC) Major Multidisciplinary Ability Enhancement Courses (Language) SECOND Skill Enhancement Courses (SEC) Common Value-Added Courses for All UG Summer Internship (only for those students who are going to choose exit option after one year) Major Multidisciplinary Ability Enhancement Courses (Language) Skill Enhancement Courses (Language) Skill Enhancement Courses (Language) Skill Enhancement Courses (SEC) Major FOURTH	Multidisciplinary (MD) 3

		Summer Internship (only for those students who are going to choose exit option)	4					
5	FIFTH	Major	15					
		Minor	6	21				
6	SIXTH	Major	17					
		Minor	4	21				
7	SEVENTH	Major	16					
	22 (21 (111	Minor	4	20				
8		Major	8					
	EIGHTH	Minor	0	20				
		Research Project/ Dissertation	12	-				
	Total							

BIRLA INSTITUTE OF TECHNOLOGY – MESRA, RANCHI NEW COURSE STRUCTURE – To be effective from Academic Session 2023-24 Based on NEP 2020 & CBCS Model BACHELOR OF SCIENCE HONOURS IN ANIMATION & MULTIMEDIA

Structure of the B.Sc. Animation & Multimedia Honours Programme

S.No.	Broad Category of Course	Credit Distribution for 3-	Credit Distribution for 4-Year
		Year B.Sc. A&M	B.Sc. A&M Honours Programme
		Programme	
01	Major (Core)	71	95
02	Minor Stream	27	31
03	Multidisciplinary	09	09
04	Ability Enhancement Courses	08	08
05	Skill Enhancement Courses	09	09
06	Value Added Courses Common	06	06
07	Research Project	-	12
	Total	130	170

The Total Minimum Credits for Completing Three Year Bachelor of Science in Animation & Multimedia Programme	130
The Total Minimum Credits for Completing Four Year Bachelor of Science in Animation & Multimedia Honours Programme is	170

BACHELOR OF SCIENCE IN ANIMATION & MULTIMEDIA HONOURS SEMESTER WISE CREDIT DISTRIBUTION (Based on NEP-20 & CBCS Model)

Semester / Session of Study	Course Level	Categor y	Course Code	Courses		delivery &		Total Credits C - Credits			
(Recommended)						Practical					
					L (Periods /week)	T (Periods /week)	P (Periods /week)				
				THEORY							
		MS-1	AN101	History of Art & Animation-I	2	0	0	2			
		MS-2	AN102	Introduction to Multimedia	2	0	0	2			
		MD		Multidisciplinary Course	3	0	0	3			
		VAC-1		Human Values and Professional Ethics / Digital Empowerment / Emotional Intelligent	2	0	0	2			
FIRST	FIRST	MJ-1	AN103	Introduction To Visual Study	1	0	2	2			
Monsoon			LABORATORIES								
		VAC-2		Yoga/ Sports for Life/ Physical Education	1	0	2	2			
		AEC	MT132	Communication Skills-I	0	0	3	1.5			
		MJ-2	AN104	Experimental Animation	0	0	3	1.5			
		MJ-3	AN105	Introduction to 3D	0	0	3	1.5			
		MJ-4	AN106	Outdoor Study-I	0	0	3	1.5			
		SEC	ELEC	 CTIVES (To be opted from List of S	SKILL EN	 HANCEN	MENT CO	OURSES)			
			SEC-I	Paper -I (Skill Enhancement Course)	1	1	2	3			
				TOTAL				22			

Semester / Session of Study (Recommended)	Course Level	Category	Course Code	Courses	Mode of delivery & credits L-Lecture; T-Tutorial; P- Practical			Total Credits C - Credits			
			THEORY								
		MS-1	AN112	History of Art & Animation-II	2	0	0	2			
		MS-2	AN113	Introduction To Game Design & Development	2	0	0	2			
		MD		Multidisciplinary Course	3	0	0	3			
	FIRST	AEC	CE101	Environment Science	2	0	0	2			
		MJ-1	AN114	Principles of Animation	1	0	2	2			
			LABORATORIES								
SECOND Spring		VAC		Yoga/ Sports for Life/ Physical Education	0	0	4	2			
Spring		MJ-2	AN115	Graphic Design Tools & Techniques -I	0	0	3	1.5			
		MJ-3	AN116	3D Modeling Techniques-I	0	0	4	2			
		MJ-4	AN117	Visual Studies-II	0	0	3	1.5			
		MJ-5	AN118	Outdoor Study-II	0	0	2	1			
		SEC	ELECT	IVES (To be opted from List of S	KILL E	NHANCE	EMENT	COURSES)			
			SEC	Paper -II	1	1	2	3			
				(Skill Enhancement Course)							
				TOTAL	ı	1		22			

Note: Students exiting the programme after securing minimum 44 credits will be awarded UG Certificate in the relevant Discipline/ Subject provided they secure 4 credits in work based vocational courses offered during summer term or internship/ Apprenticeship in addition to 6 credits from skill-based courses earned during first and second semester.

Semester / Session of Study (Recommended)	Course Level	Category	Course Code	Courses		delivery & ure; T-Tuto Practical		Total Credits C - Credits
					L (Periods /week)	T (Periods /week)	P (Period s/week)	
-				THEORY	ľ			
		MS-1	AN201	Writing & Storytelling	2	0	0	2
THIRD		MS-2	AN202	Audio Visual Technology	2	0	0	2
Monsoon	SECOND	MD		Multidisciplinary Course	3	0	0	3
		AEC		Personality Development / Public Speaking	2	0	2	3
		MJ-1	AN203	Animation Techniques	1	0	2	2
				LABORATOI	RIES			
		MJ-2	AN204	Graphic Design Tools & Techniques-II	0	0	3	1.5
		MJ-3	AN205	Visual Studies-III	0	0	3	1.5
		MJ-4	AN206	3D Modeling Techniques-II	0	0	4	2
		MJ-5	AN207	Outdoor Study-III	0	0	4	2
		EI	LECTIVES	(To be opted from List of SKI	LL ENHA	NCEME	NT COU	TRSES)
			SEC	Paper -III (Skill Enhancement Course)	1	1	2	3
				TOTAL	1	1	<u>'</u>	22

SEMESTER /Session of Study (Recommended)	LEVEL	Category	Course Code	Courses		f delivery of ture; T-Tuto Practicals	orial; P-	Total Credits C- Credits
					L (Periods /week)	T (Periods /week)	P (Periods/ week)	
				THEO	RY			
		MI-1	AN215	Advertising & New Media	3	0	0	3
		MI-2	AN216	Web Technology	2	0	0	2
				LABORAT	ORIES			
	SECOND	AEC	MT133	Communication Skills-2	0	0	3	1.5
	SECOND	MJ-1	AN217	Graphic Design Tools & Techniques-III	0	0	3	1.5
		MJ-2	AN218	Digital Film Production	0	0	3	1.5
		MJ-3	AN219	Character Animation-I	1	0	2	2
FOURTH		MJ-4	AN220	Compositing & VFX	0	0	3	1.5
Spring		MJ-5	AN221	Character Modeling & Texturing	0	0	4	2
		MJ-6	AN222	Game Design	0	0	3	1.5
		MJ-7	AN223	Visual Development	0	0	3	1.5
		MJ-8	AN224	Urban Sketching	0	0	4	2
			PE-I	Programme Elective-I	1	0	2	2
	I	1	<u> </u>	TOTAL		<u> </u>		22

Note: Students exiting the programme after securing minimum 88 credits will be awarded UG Diploma in the relevant Discipline/ Subject Provided they secure 4 credits in skill based vocational courses offered during first year or second year summer term.

SEMESTER /Session of Study (Recommended)	LEVEL	Category	Course Code	Courses		Mode of delivery & credits L-Lecture; T-Tutorial; P- Practicals		
				L (Periods /week)	T (Periods /week)	P (Periods/ week)		
			1	THEOR	Y	ll .	1	1
		MI-1	AN301	Direction For Animation	2	1	0	3
		MI-2	AN302	Character Design	2	0	2	3
				LABORATO	RIES			
FIFTH	THIRD	MJ-1	AN303	Graphic Design Tools & Techniques-IV (UI/ UX)	0	0	3	1.5
Monsoon		MJ-2	AN304	Comic Production	0	0	3	1.5
		MJ-3	AN305	Character Animation-II	0	0	3	1.5
		MJ-4	AN306	3D Character Modeling, Texturing, Lighting & Rendering	0	0	4	2
		MJ-5	AN307	Game Engine	0	0	3	1.5
		MJ-6	AN308	Layout & Digital Painting	0	0	3	1.5
		MJ-7	AN309	Documentary Film Making	0	0	3	1.5
		MJ-8	AN310	Field Study	0	0	4	2
			ELE	CTIVES (To be opted from Lis	st of Progra	m Electiv	es (PE)	1
		MJ-9	PE-II	Programme Elective-II	1	0	2	2
				TOTAL	<u> </u>	l .		21

SEMESTER /Session of Study (Recommended)	LEVEL	Category Course Code		Courses	Mode o	Total Credits C- Credits		
					L (Periods/ week)	T (Periods/ week)	P (Periods/w eek)	
			1	THEORY				I.
		MI-1	AN316	Entrepreneurship	2	0	0	2
		MI-2	AN317	Digital Marketing	2	0	0	2
				LABORATOR	RIES			
		MJ-1	AN318	3D Rigging & Skinning	0	0	4	2
SIXTH	THIRD	MJ-2	AN319	Character Animation-III	0	0	4	2
Spring		MJ-3	AN320	Production Design Workshop-I (Specialization: Animation, Film Making, Visual Effects, Games, and Comics)	0	0	8	4
		MJ-4	AN321	Degree Showcase Project-I				7
			ELE	ECTIVES (To be opted from List	of Progra	m Electiv	es (PE)	I
		MJ-5	PE-III	Programme Elective-III	1	0	2	2
				TOTAL				21
		TOTA	L PROGR	AM CREDITS FOR THREE YE	CAR B.Sc.	PROGRA	MME	130

Note: Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline/ Subject upon securing 130 credits.

SEMESTER /Session of Study (Recommended)	LEVEL	Category Course Code Courses		Mode o	Total Credits C- Credits			
				v	L (Periods/ week)	T (Periods/ week)	P (Periods/w eek)	
				THEORY				
		MI-1	AN401	Research in Animation & Multimedia	2	0	0	2
		MI-2	AN402	Indian Art & Animation	2	0	0	2
			<u> </u>	LABORATOR	IES			
SEVENTH	FOURTH	MJ-1	AN403	Advanced Animation Tools & Techniques	0	0	3	1.5
Monsoon	FOORTH	MJ-2	AN404	3D Dynamics & Simulation	0	0	3	1.5
		MJ-3	AN405	Field Visit & Presentation	0	0	3	1.5
		MJ-4	AN406	Storytelling Using Multimedia	0	0	3	1.5
		MJ-5	AN407	Production Design Workshop-II	0	0	8	4
				(Specialization: Animation, Film Making, Visual Effects, Games, and Comics)				
		MJ-6	AN408	Degree Showcase Project-II				6
				TOTAL				20

SEMESTER /Session of Study	LEVEL	Category	Course Code	Courses	Mode of delivery & credits L-Lecture; T-Tutorial; P- Practicals			Total Credits C- Credits
				<u> </u>	L (Periods /week)	T (Periods /week)	P (Periods/ week)	
EIGHTH	FOURTH	LABORATORIES						
SEMESTER		RP-1	AN409	Industrial Training / Research Project / Dissertation				12
		MJ-1	AN410	Final Exhibition / Showcase/ Publication				8
				TOTAL				20
		TOTAL PROGRA	PROGRAI MME	M CREDITS FOR FOUR	YEAR	B.Sc. H	ONOURS	170

Note: Students will be awarded UG Degree- B.Sc. Animation & Multimedia with Honours.

			S (LIST OF SKILL ENHA	Mode	Total Credits		
	Programm e Elective (PE)	Code No	Name of the PE Course	L-Lecture			
PE / LEVEL				L (Periods /week)	T (Periods /week)	P (Periods /week)	C
1	(SEC-I)	AN107	Basic Drawing Skills	1	1	2	3
		AN108	Presentation Design	1	1	2	3
	_	AN109	Photography	1	1	2	3
		AN110	Advertising Campaign Design	1	1	2	3
		AN111	Desk Top Publishing	1	1	2	3
1	(SEC-II)	AN119	Basic Writing Skills	1	1	2	3
		AN120	Web Design	1	1	2	3
		AN121	Comic Illustration	1	1	2	3
		AN122	Product Modeling in 3D	1	1	2	3
		AN123	Video Making	1	1	2	3
		AN124	Digital Animation	1	1	2	3
		AN125	Game Appreciation	1	1	2	3
2	(SEC-III)	AN208	Calligraphy	1	1	2	3
		AN209	Fiction Writing	1	1	2	3
		AN210	Architectural Modeling	1	1	2	3
		AN211	Basic Video Editing	1	1	2	3
	_	AN212	Sound Design	1	1	2	3
		AN213	3D Animation	1	1	2	3
		AN214	Matte Painting	1	1	2	3

LIST OF PROGRAM ELECTIVES (PE)

		Mode of delivery & credits L-Lecture; T-Tutorial; P- Practical			Total Credits		
PE / LEVEL	Programme Elective (PE)	Code No	Courses	L (Periods /week)	T (Periods/ week)	P (Periods /week)	C
	PE-I (Semester-IV)	AN225	Story Boarding	1	0	2	2
		AN226	Stop Motion	1	0	2	2
		AN227	Story Appreciation for Gaming	1	0	2	2
	-	AN228	Fundamentals of Theatre and Acting	1	0	2	2
	PE-II (Semester-V)	AN311	Classical Animation	1	0	2	2
		AN312	3D Sculpting	1	0	2	2
		AN313	3D Motion Graphics and Dynamics	1	0	2	2
	-	AN314	Magazine Design	1	0	2	2
		AN315	Design Thinking	1	0	2	2
	PE-III (Semester-VI)	AN322	VFX in 2D Animation	1	0	2	2
		AN323	3D Compositing for Camera	1	0	2	2
		AN324	Graphic Novels	1	0	2	2
		AN325	Media Studies	1	0	2	2
		AN326	Film Production Design	1	0	2	2
		AN327	Product Designing and Visualization	1	0	2	2

LIST OF MULTIDISCIPLINARY COURSES

LIST OF MULTIDISCIPLINARY COURSES								
		Code No	Name of the Course	Mode o	Total Credits			
LEVEL	SEM.			L-Lecture;				
				L (Periods/ week)	T (Periods/ week)	P (Periods/ week)	C	
		MT115	Business Economics	3	0	0	3	
		MT119	Introduction to Human Resource Management	3	0	0	3	
		MT120	Introduction to Marketing Management	3	0	0	3	
		MT123	Business Communication	2	0	2	3	
		MT417	French Language	3	0	0	3	

VOCATIONAL COURSES OFFERED FOR ANIMATION & MULTIMEDIA STUDENTS

LIST OF VOCATIONAL COURSES								
				Mode o	Total Credits			
				L-Lecture;				
LEVEL SEI	SEM.	Code No	Name of the Course	L (Periods/week)	T (Periods/ week)	P (Periods/week)	С	
First	SEM II	AN126	Internship on Digital Marketing				4	
Second	SEM IV	AN229	Internship on Multimedia				4	