BIRLA INSTITUTE OF TECHNOLOGY MESRA, RANCHI
NEW COURSE STRUCTURE – To be effective from Academic Session 2025-26
Based on NEP 2020
BACHELOR OF SCIENCE (B. Sc.) IN VISUAL COMMUNICATION proposed

SEMESTER WISE CREDIT DISTRIBUTION (SUMMARY)

S. No	Semester	Course Category	Credits	Total
1	FIRST	Major (MJ)	6.5	22
		Minor (MS)	4	
		Multidisciplinary (MD)	3	
		Ability Enhancement Courses (AEC)	1.5	
		Skill Enhancement Courses (SEC)	3	
		Common Value-Added Courses for All UG (CVAC)	4	
2	SECOND	Major	8	22
		Minor	4	
		Multidisciplinary	3	
		Ability Enhancement Courses (Language)	2	
		Skill Enhancement Courses (SEC)	3	
		Common Value-Added Courses for All UG	2	
3	THIRD	Major	9	22
		Minor	4	
		Multidisciplinary	3	
		Ability Enhancement Courses (Language)	3	
		Skill Enhancement Courses (SEC)	3	
4	FOURTH	Major	15.5	22
		Minor	5	
		Ability Enhancement Courses (Language)	1.5	
5	FIFTH	Major	16	22
		Minor	6	
6	SIXTH	Major	10	

		Minor	4	22
		Research Project/ Design Project	8	
7	SEVENTH	Major	20	24
		Minor	4	
8	EIGHTH	Major	12	24
		Minor	0	
		Research Project/ Dissertation	12	
Total				**180**

BIRLA INSTITUTE OF TECHNOLOGY – MESRA, RANCHI
NEW COURSE STRUCTURE – To be effective from Academic Session 2025-26
Based on NEP 2020
BACHELOR OF SCIENCE (B. Sc.) IN VISUAL COMMUNICATION

Course Structure of the Bachelor of Science (B. Sc.) in Visual Communication Programme

S.No.	Broad Category of Course	Credit Distribution for 4-Year B.Sc. Visual Communication Programme	The Total Minimum Credits for Completing Four Year Bachelor of Science Programme in Visual Communication:
01	Major (Core)	97	
02	Minor Stream	31	
03	Multidisciplinary	09	
04	Ability Enhancement Courses	08	
05	Skill Enhancement Courses	09	
06	Value Added Courses Common	06	
07	Design Project / Research Project	20	
	Total	**180**	**180**

I Year	Students exiting the programme after securing minimum 44 credits will be awarded UG Certificate in Visual Communication	44
II Year	Students exiting the programme after securing minimum 88 credits will be awarded UG Diploma in Visual Communication	88
III Year	The Total Minimum Credits for Completing Three Year Bachelor of Science in Visual Communication	132
IV Year	The Total Minimum Credits for Completing Four Year Bachelor of Science (Honors) in Visual Communication Programme (B. Sc. Honors)	180

BACHELOR OF SCIENCE PROGRAM IN VISUAL COMMUNICATION

SEMESTER WISE CREDIT DISTRIBUTION (Based on NEP-20)

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
					L (Periods /week)	T (Periods /week)	P (Periods /week)	
				THEORY				
FIRST **Monsoon**	**FIRST**	MS-1		History of Visual Communication	2	0	0	2
		MS-2		Introduction to Design	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
		MJ-1	AN103	Introduction To Visual Study	1	0	2	2
				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		**ELECTIVES (To be opted from List of SKILL ENHANCEMENT COURSES)**				
			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				
SECOND Spring	FIRST	MS-1		Color Theory and Composition	2	0	0	2
		MS-2		Typography Basics	2	0	0	2
		MD		Multidisciplinary Course	3	0	0	3
		AEC	CE101	Environment Science	2	0	0	2
		MJ-1	AN114	Principles of Animation	1	0	2	2
				LABORATORIES				
		VAC		Yoga/ Sports for Life/ Physical Education	0	0	4	2
		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		**ELECTIVES** (**To be opted from List of SKILL ENHANCEMENT COURSES**)				
			SEC	Paper -II (Skill Enhancement Course)	1	1	2	3
				TOTAL				**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	Mode of delivery & credits *L-Lecture; T-Tutorial; P-Practical*			Total Credits C - Credits
					L (Periods /week)	T (Periods /week)	P (Periods /week)	
-				**THEORY**				
THIRD Monsoon	**SECOND**	MS-1		Typography and Calligraphy	2	0	0	2
		MS-2		Videography Basics and Editing	2	0	0	2
		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
				LABORATORIES				
		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
				ELECTIVES (To be opted from List of SKILL ENHANCEMENT COURSES)				
			SEC	Paper -III (Skill Enhancement Course)	1	1	2	3
				TOTAL				**22**

SEMESTER /Session of Study (Recommended)	LEVEL	Category	Course Code	Courses	Mode of delivery & credits *L-Lecture; T-Tutorial; P-Practicals*			Total Credits C-Credits
					L (Periods/week)	T (Periods/week)	P (Periods/week)	
		THEORY						
		MI-1	AN215	Advertising & New Media	3	0	0	3
		MI-2		Research Methods for Visual Communication	2	0	0	2
		LABORATORIES						
	SECOND	AEC	MT133	Communication Skills-2	0	0	3	1.5
		MJ-1	AN217	Graphic Design Tools & Techniques-III	0	0	3	1.5
		MJ-2	AN218	Digital Film Production	0	0	3	1.5
FOURTH Spring		MJ-3	AN219	Character Animation-I	1	0	2	2
		MJ-4	AN220	Compositing & VFX	0	0	3	1.5
		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
TOTAL								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			Total Credits C-Credits
					L (Periods/week)	T (Periods/week)	P (Periods/week)	
				THEORY				
FIFTH Monsoon	**THIRD**	MI-1		Media Ethics and Intellectual Property	2	1	0	3
		MI-2	AN302	Character Design	2	0	2	3
				LABORATORIES				
		MJ-1	AN303	Graphic Design Tools & Techniques-IV (UI/ UX)	0	0	3	1.5
		MJ-2	AN304	Comic Production	0	0	4	2
		MJ-3	AN305	Character Animation-II	0	0	4	2
		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
				ELECTIVES (To be opted from List of Program Electives (PE)				
		MJ-9	PE-II	Programme Elective-II	1	0	2	2
				TOTAL				22

SEMESTER /Session of Study (Recommended)	LEVEL	Category	Course Code	Courses	Mode of delivery & credits *L-Lecture; T-Tutorial; P-Practicals*			Total Credits C-Credits
					L (Periods /week)	T (Periods /week)	P (Periods/ week)	
				THEORY				
		MI-1	AN316	Entrepreneurship	2	0	0	2
		MI-2	AN317	Digital Marketing	2	0	0	2
				LABORATORIES				
		MJ-1	AN318	3D Rigging & Skinning	0	0	4	2
SIXTH Spring	**THIRD**	MJ-2	AN319	Character Animation-III	0	0	4	2
		MJ-3		Design Workshop-I	0	0	8	4
		RP/ DP-1		Mini Project				8
				ELECTIVES (To be opted from List of Program Electives (PE)				
		MJ-5	PE-III	Programme Elective-III	1	0	2	2
				TOTAL				**22**

Note: Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline/ Subject upon securing 132 credits.

SEMESTER /Session of Study (Recommended)	LEVEL	Category	Course Code	Courses	Mode of delivery & credits *L-Lecture; T-Tutorial; P-Practicals*			Total Credits C-Credits
					L (Periods/ week)	T (Periods/ week)	P (Periods/w eek)	
				THEORY				
		MI-1		Research in Visual Communication	2	0	0	2
		MI-2		Indian Art & Design	2	0	0	2
				LABORATORIES				
		MJ-1	AN403	Advanced Animation Tools & Techniques	0	0	3	1.5
SEVENTH Monsoon	**FOURTH**	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		Design Workshop-II	0	0	8	4
		MJ-6		Portfolio Development				10
				TOTAL				**24**

SEMESTER /Session of Study	LEVEL	Category	Course Code	Courses	Mode of delivery & credits L-Lecture; T-Tutorial; P-Practicals			Total Credits C-Credits
					L (Periods/week)	T (Periods/week)	P (Periods/week)	
				LABORATORIES				
EIGHTH SEMESTER	FOURTH	RP/ DP-1		Dissertation / Graduation Project				12
		MJ-1		Industrial Training				12
				TOTAL				24
			TOTAL CREDITS FOR FOUR YEAR B. Sc. HONORS PROGRAM					180

Note: Students will be awarded UG Degree- B. Sc. (Honors) in Visual Communication.

			ELECTIVES (LIST OF SKILL ENHANCEMENT COURSES)				
				Mode of delivery & credits L-Lecture; T-Tutorial; P-Practical			Total Credits
PE / LEVEL	Programme Elective (PE)	Code No	Name of the PE Course	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
			Collage Making	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
			Basics of Illustration	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 |
| | | | Advanced Photography | | | | |

LIST OF PROGRAM ELECTIVES (PE)

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
			Design Critique and Reflective Practice				
			Experimental and Conceptual Design	1	0	2	2
			Sustainable Design Practices	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
			Interactive Media Design				
			Packaging Design	1	0	2	2
			Augmented Reality (AR) and Virtual Reality (VR) Basics	1	0	2	2

		Code	Name	L	T	P	C
	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
			Branding Strategies				
			Visual Storytelling for Social Media	1	0	2	2
			Sustainable Design Practices	1	0	2	2

LIST OF MULTIDISCIPLINARY COURSES

LIST OF MULTIDISCIPLINARY COURSES							
				Mode of delivery & credits *L-Lecture; T-Tutorial; P-Practical*			Total Credits
LEVEL	SEM.	Code No	Name of the Course	L (Periods/week)	T (Periods/week)	P (Periods/week)	C
			Business Economics	3	0	0	3
			Introduction to Human Resource Management	3	0	0	3
			Introduction to Marketing Management	3	0	0	3
			Business Communication	2	0	2	3
			French Language	3	0	0	3

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VOCATIONAL COURSES OFFERED FOR ANIMATION & MULTIMEDIA STUDENTS

LIST OF VOCATIONAL COURSES								
				Mode of delivery & credits *L-Lecture; T-Tutorial; P-Practical*				**Total Credits**
LEVEL	**SEM.**	**Code No**	**Name of the Course**	**L (Periods/week)**	**T (Periods/week)**	**P (Periods/week)**	**C**	
First	SEM II	AN126	Internship on Digital Marketing				4	
Second	SEM IV	AN229	Internship on Multimedia				4	

Note: The course codes, wherever missing, will be finalized during the Board of Studies (BOS) meeting for this program.
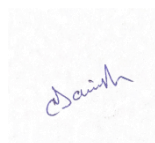
Dr. Vibhuti Pandya   **Gautam Goswami**   **Gaurav Choudhary**   **Manish Kumar**   **Dr. Rishika Sharma**

Incharge & Asst. Prof.   **Asst. Professor**   **Asst. Professor**   **Asst. Professor**   **Asst. Professor**

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