Bachelor of Computer Applications (Honours with Research) with Industry-Oriented Specialisation in Multimedia and Animation Curriculum

SN 1	Semester I					
1	Name of the Course	L	T	P	S	C
	Mathematics for Computing	3	0	0	0	3
2	Computer System Organisation	3	0	0	0	3
3	Programming for Problem Solving	3	0	1	1	5
4	Office Automation Tools	3	0	1	0	4
5	Business Communication & Report Writing	3	0	0	0	3
	Total Credits	15	0	2	1	18
CNI	Semester II	Ţ	Tr.	ъ	C	
SN 1	Name of the Course Discrete Mathematics	L 3	T	P	S	C 3
2	First Aid & Health	3	0	0	0	3
3	Data Structures	3	0	1	0	4
4	Object Oriented Programming using C++	3	0	1	1	5
5	Database Management Systems	3	0	1	0	4
6	Web Design	3	0	1	0	4
	Total Credits	18	0	4	1	23
Semester III						
SN	Name of the Course	L	T	P	S	C
1	Computer Networks	3	0	0	0	3
2	Operating Systems	3	0	1	0	4
3	Full Stack Development using React & Node.js	3	0	1	0	4
4	Entrepreneurship/ E-Business (MOOC)	3	0	0	0	3
5	Java Programming	3	0	1	1	5
6	Non-Linear Editing Total Credits	3 18	0	1 4	0	23
		10	Ľ	4	1	23
Semester IV SN Name of the Course L T P S C						
1	Python Programming	3	0	1	0	4
2	Machine Learning	3	0	1	1	5
3	Mobile Application Development	3	0	1	1	5
4	Environmental Studies/ Understanding India/Cognitive Computing	3	0	0	0	3
5	Graphic Design	3	0	1	0	4
	Total Credits	15	0	4	2	21
	Semester V					
SN	Name of the Course	L	T	P	S	C
1	Design and Analysis of Algorithms	3	0	1	0	4
2	Software Engineering and Testing	3	0	0	0	3
3	Game Development Professional Readiness	3	0	2	0	2
5	Minor Project	0	0	0	5	5
6	Internship	U	U	U		
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		0	0	0 4	5 10	5 23
	Total Credits	0 9	0	4	5 10	5 23
SN						
SN 1	Total Credits Semester VI	9	0	4	10	23
-	Total Credits Semester VI Name of the Course	9 L	0 T	4 P	10 S	23 C
1	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII	9 L 0	0 T 0 0	P 0 0	10 S 15 15	23 C 15 15
1 SN	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course	9 L 0 0	0 T 0 0	P 0 0	10 S 15 15	23 C 15 15
1 SN 1	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology	9 L 0 0	0 T 0 0	P 0 0 P 0	10 S 15 15 S 0	23 C 15 15 2 C 3
1 SN 1 2	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques	L 0 0 L 3 3	T 0 0 0 0	P 0 0 0 0	10 S 15 15 15 S 0	23 C 15 15 C 3 3
1 SN 1 2 3	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms	L 0 0 L 3 3	7 0 0 T 0 0	P 0 0 0 0 1	10 S 15 15 S 0 0	23 C 15 15 C 3 3
1 SN 1 2 3 4	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics	L 0 0 1 3 3 3 2	T 0 0 0 0 0 0 0	P 0 0 0 1 1 0	10 S 15 15 S 0 0 0	23 C 15 15 C 3 3 4 2
1 SN 1 2 3	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I	L 0 0 L 3 3	7 0 0 T 0 0	P 0 0 0 0 1	10 S 15 15 S 0 0	23 C 15 15 C 3 3
1 SN 1 2 3 4	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics	L 0 0 3 3 3 2 0	T 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 S 15 15 S 0 0 0 0	23 C 15 15 2 3 3 4 2 8
1 SN 1 2 3 4	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course	L 0 0 3 3 3 2 0	T 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 S 15 15 S 0 0 0 0	23 C 15 15 2 3 3 4 2 8
SN 1 2 3 4 5 5 SN 1	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium	L 0 0 11 L 0	T 0 0 0 0 0 0 T T 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 1 P P 0 0 0 1 P P 0 0 0 1 P P 0 0 0 1 P P 0 0 0 1 P P 0 0 0 0	10 S 15 15 0 0 0 0 8 8 8	23 C 15 15 3 3 4 2 8 20
SN 1 2 3 4 5 5 SN	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper)	L 0 0 1 3 3 3 2 0 11 L 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 1 0 0 1 P 0 0 0 0 1	10 S 15 15 0 0 0 0 8 8 8	23 C 15 15 C 3 3 4 2 8 20 C 5 15
SN 1 2 3 4 5 5 SN 1	Total Credits Semester VI Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits	L 0 0 11 L 0	T 0 0 0 0 0 0 T T 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 1 P P 0 0 0 1 P P 0 0 0 1 P P 0 0 0 1 P P 0 0 0 1 P P 0 0 0 0	10 S 15 15 0 0 0 0 8 8 8	23 C 15 15 3 3 4 2 8 20
SN 1 2 3 4 5 5 SN 1 2 2	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket	L 0 0 3 3 2 0 111 L 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 1 P 0 0 0 0 0 0 0 0 0 0 0 0 0	10 S 15 15 0 0 0 0 8 8 8 S 5 15	C 15 15 20 C C 5 15 20
SN 1 2 3 4 5 5 SN 1	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course	L 0 0 111 L 0 0 0 111	T 0 0 0 0 0 0 0 0 T T 0 0 0 0 T T 0	P 0 0 0 1 1 0 0 0 0 0 P P	\$\begin{array}{c} \begin{array}{c} \begi	C 15 15 20 C C C C C C C C C C C C C C C C C C
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SN 1 2 3 4 5 5 SN 1 2 2 SN 1 2 2 SN 1 2 2 SN 1 2 SN	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing First Aid & Health	L 0 0 111 L 0 0 0 111	T 0 0 0 0 0 0 0 0 0 T 0 0 0 0 T 0 0 0 0	P 0 0 0 1 1 P 0 0 0 0 P 0 0 0 0 P 0 0 0 0	\$\begin{array}{c} \begin{array}{c} \begi	C 15 15 20 C 3 3
SN 1 2 3 4 5 5 SN 1 2 2 SN 1 2 SN 1 2 2 SN	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing	L 0 0 3 3 3 2 0 111 L 0 0 0	T 0 0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 1 0 0 0 0 P 0 0 0 0 0 0 0 0 0	S 15 15	C 15 15 20 C 3 3 3
SN 1 2 3 4 5 5 SN 1 2 2 SN 1 2 2 3 3	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing First Aid & Health Food Nutrition & Hygiene NCC/NSS Human Values	L 3 3 2 0 11 L 0 0 L 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 T 0 0 0 0 0 0 0 0	P 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S 15 15	C 15 15 20 C 3 3 3 3 3 3 3 3
SN 1 2 3 4 5 5 SN 1 2 2 SN 1 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing First Aid & Health Food Nutrition & Hygiene NCC/NSS	L 3 3 2 0 11 L 3 3 3 3 2 0 13 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S 15 15	C 15 15 20 C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SN 1 2 3 4 5 5 5 6 7	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing First Aid & Health Food Nutrition & Hygiene NCC/NSS Human Values Yoga & Meditation Entrepreneurship (MOOC)	L 3 3 2 0 11 L 3 3 3 3 2 0 13 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S	C 15 15 20 C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SN 1 2 3 4 5 5 6 7 8	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing First Aid & Health Food Nutrition & Hygiene NCC/NSS Human Values Yoga & Meditation Entrepreneurship (MOOC) E-Business (MOOC)	L 0 0 11 11 L 0 0 0 11 11 12 13 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S	C 15 15 20 C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SN 1 2 3 4 5 5 6 7 8 9	Total Credits Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing First Aid & Health Food Nutrition & Hygiene NCC/NSS Human Values Yoga & Meditation Entrepreneurship (MOOC) E-Business (MOOC) Understanding India	L 0 0 11 11 12 0 0 0 11 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S	C 15 15 20 C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SN 1 2 3 4 5 5 6 7 8	Total Credits Name of the Course Capstone Project Total Credits Semester VII Name of the Course Research Methodology Optimization Techniques Advanced Data Structures and Algorithms Responsible AI & Tech Ethics Research Project-I Total Credits Semester VIII Name of the Course Colloquium Research Project -II (Scopus Indexed Research Paper) Total Credits Open Elective Basket Name of the Course Business Communication & Report Writing First Aid & Health Food Nutrition & Hygiene NCC/NSS Human Values Yoga & Meditation Entrepreneurship (MOOC) E-Business (MOOC)	L 0 0 11 11 L 0 0 0 11 11 12 13 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S	C 15 15 20 C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3