



HINDUSTAN

INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

BCA (General/Multimedia/Database) - 2023-24 AY

SEMESTER I

S.No	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH
1	CC	TH	I	ACA31002	Computer Fundamentals and Organization	2	1	0	3	2	3
2	CC	TP	I	ACA31003	Problem Solving Techniques	2	0	2	3	2	4
3	CC	TP	I	ACA31004	Data Structures	2	1	2	4	2	5
4	BS	TH	I	GMA31001	Mathematics for Computer Science	3	1	0	4	2	4
5	HS	TP	I	GLS51001	Communication Skills	2	0	1	2	1	3
6	HS	TP	I	GLS11001	Tamil Art and Culture	1	0	1	1	2	2
7	VA	TH	I	GGE51003	Environmental Science and Sustainable Development	2	0	0	2	2	2
8	HS	PR	I	GBP01400	Health and Wellbeing	0	0	2	1	2	2
9	VA	PR	I	GPE21401	Yoga						

				GPE21402	Sports							
				GPE21403	Fitness							
				AVC31401	Fine Arts							
10	HS	PR	I	GGE51401	Outreach (NCC)-Level-I							
				GGE51402	Outreach (NSS-Y's men, Rotaract)-Level-I							
11	NC	TP	I	ASS21001	Community Development	1	0	1	*	2	2	
						Total	15	3	9	20	17	27
L – Lecture; T – Tutorial; P – Practical; C – Credit; S- Self Study; TCH- Total Contact Hours ; *- Non Credit Course												
SEMESTER II												
S.No	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH	
1	CC	TP	II	ACA31005	Object Oriented Programming	2	0	2	3	2	4	
2	CC	TP	II	ACA31006	Database Management Systems	2	0	2	3	2	4	
3	CC	TP	II	ACA31007	Multimedia Systems	2	0	2	3	2	4	
4	CC	TH	II	ACA31008	Operating Systems	2	1	0	3	2	3	
5	HS	TP	II	GLS51002	Personality Development and Soft Skills	2	0	1	2	1	3	
6	AE	TP	II	ACA31001	Digital Technological Solutions	2	0	2	3	2	4	

7	HS	TH	II	GLS51008	Tamil	2	0	0	2	2	2
				GLS51009	Hindi						
				GLS51010	Telugu						
				GLS11002	Advanced Tamil						
8	HS	PR	II	GBP01400	Health and Wellbeing	0	0	2	1	2	2
9	VA	PR	II	GPE21401	Yoga						
				GPE21402	Sports						
				GPE21403	Fitness						
				AVC31401	Fine Arts						
10	HS	PR	II	GGE51401	Outreach (NCC)-Level-I						
				GGE51402	Outreach (NSS-Y's men, Rotaract)-Level-I						
Total						14	1	11	20	15	26
L – Lecture; T – Tutorial; P – Practical; C – Credit; S- Self Study; TCH- Total Contact Hours											

SEMESTER III											
S.No	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH
1	CC	TH	III	ACA31010	Computer Networks	3	1	0	4	2	4
2	CC	TP	III	ACA31009	Full Stack WEB Development	3	0	2	4	2	5
3	DE	TP	III	*****	Department Elective-1	2	0	2	3	2	4
4	NE	TP	III	*****	Non-Department Elective	2	0	2	3	2	4
5	HS	TH	III	GLS51011	French	2	0	0	2	2	2
				GLS51012	German						
				GLS51013	Spanish						
				GLS51014	Korean						
				GLS51015	Mandarin						
				GLS51016	Japanese						
6	HS	PR	III	GLS51005	Public Speaking	0	0	2	1	1	2

[illegible]

SEMESTER IV											
S.No	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH
1	CC	TP	IV	ACA31011	Software Engineering	2	1	2	4	2	5
2	CC	TH	IV	ACA31015	E-Commerce Technologies	3	0	0	3	2	3
3	CC	TP	IV	ACA31012	Mobile Application Development	2	0	2	3	2	4
4	CC	TH	IV	ACA31014	Digital Marketing	3	0	0	3	2	3
5	SE	TP	IV	ACM31001	Accounting Tools	1	0	2	2	2	3
6	DE	TP	IV	*****	Department Elective-2	2	0	2	3	2	4
7	HS	TH	IV	GLS11003	French Intermediate	2	0	0	2	2	2
				GLS11004	German Intermediate						
				GLS11005	Spanish Intermediate						
				GLS11006	Korean Intermediate						
				GLS11007	Mandarin Intermediate						

				GLS11008	Japanese Intermediate						
8	HS	PR	IV	GLS51006	English for Competitive Examinations	0	0	2	1	1	2
					Total	15	1	10	21	15	26
L – Lecture; T – Tutorial; P – Practical; C – Credit; S- Self Study; TCH- Total Contact Hours											

SEMESTER V												
S.No	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH	
1	CC	TP	V	ACA31016	Fundamentals of Dataware Housing and Data Mining	3	0	2	4	2	5	
2	CC	TH	V	ACS11011	Artificial Intelligence	3	1	0	4	2	4	
3	CC	TP	V	ACA31013	Cyber Security	3	0	2	4	2	5	
4	CC	TP	V	AGE21001	Fundamentals of Research Methodology	3	0	2	4	2	5	
5	DE	TP	V	**	Department Elective-3	2	0	2	3	2	4	
6	HS	PR	V	GLS51007	Verbal Reasoning and Interview Skills	0	0	2	1	1	2	
7	NC	TH	V	AGE31001	Methodology for Writing a Professional and Scientific Article	1	0	0	*	2	1	
						Total	15	1	10	20	13	26
L – Lecture; T – Tutorial; P – Practical; C – Credit; S- Self Study; TCH- Total Contact Hours												

SEMESTER VI												
S.No	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH	
1	CC	TH	VI	ACA31017	IoT Applications	3	1	0	4	2	4	
2	CC	TH	VI	ACA31018	Web Services in Cloud Computing	3	1	0	4	2	4	
3	CC	TH	VI	ACA31019	Data Analytics and Visualization	3	1	0	4	2	4	
4	DE	TP	VI	*****	Department Elective-4	2	0	2	3	2	4	
5	NC	TH	VI	GGE51011	Introduction to Women and Gender Studies	3	0	0	*	2	3	
6	HS	TH	VI	GGE51001	Universal Human Values	2	0	0	2	2	2	
7	RP	PJ	VI	ACA31801	Project	0	0	14	7	4	14	
						Total	16	3	16	24	16	35
L – Lecture; T – Tutorial; P – Practical; C – Credit; S- Self Study; TCH- Total Contact Hours												

LIST OF DEPARTMENT ELECTIVES											
DEPARTMENT ELECTIVE-1											
S.No	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH
1	DE	TP	III	ACA31500	MATLAB Programming	2	0	2	3	2	4
2	DE	TP	III	ACA31501	User Interface Design	2	0	2	3	2	4
3	DE	TP	III	ACA31502	Graphic Design	2	0	2	3	2	4
4	DE	TP	III	ACA31503	Digital Media and Visual Effects	2	0	2	3	2	4
5	DE	TP	III	ACA31504	Advanced Database Technologies	2	0	2	3	2	4
6	DE	TP	III	ACA31505	Data Science Tools	2	0	2	3	2	4
DEPARTMENT ELECTIVE-2											
1	DE	TP	IV	ACA31508	Software Modeling Architecture	2	0	2	3	2	4
2	DE	TP	IV	ACA31509	Information Security	2	0	2	3	2	4

3	DE	TP	IV	ACA31510	2-D Animation & Editing	2	0	2	3	2	4
4	DE	TP	IV	ACA31511	3-D Architectural Visualization & Visual FX	2	0	2	3	2	4
5	DE	TP	IV	ACA31512	Data Modelling & Integration	2	0	2	3	2	4
6	DE	TP	IV	ACA31513	Databases in R Programming	2	0	2	3	2	4

DEPARTMENT ELECTIVE-3											
1	DE	TP	V	ACA31516	Agile Software Development	2	0	2	3	2	4
2	DE	TP	V	ACA31517	Computer vision	2	0	2	3	2	4
3	DE	TP	V	ACA31518	Advanced 3-D Animation	2	0	2	3	2	4
4	DE	TP	V	ACA31519	Game Programming	2	0	2	3	2	4
5	DE	TP	V	ACA31520	Applied Data Science	2	0	2	3	2	4
6	DE	TP	V	ACA31521	Data Engineering Foundations	2	0	2	3	2	4

DEPARTMENT ELECTIVE-4											
1	DE	TP	VI	ACA31522	Software Quality Management	2	0	2	3	2	4
2	DE	TP	VI	ACA31523	Block Chain Technology	2	0	2	3	2	4
3	DE	TP	VI	ACA31524	Augmented and Virtual Reality	2	0	2	3	2	4
4	DE	TP	VI	ACA31525	Cartoon Animation and Special Effects	2	0	2	3	2	4
5	DE	TP	VI	ACA31526	Data Analysis	2	0	2	3	2	4
6	DE	TP	VI	ACA31527	Data Vizualization	2	0	2	3	2	4
L – Lecture; T – Tutorial; P – Practical; C – Credit; S- Self Study; TCH- Total Contact Hours											

NON-DEPARTMENT ELECTIVES											
S.No.	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	L	T	P	C	S	TCH
1	NE	TP	III	ACA31700	Digital Marketing	2	0	2	3	2	4
S. NO	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE	VERTICALS					
						GENERAL		MULTIMEDIA		DATABASE	
DEPARTMENT ELECTIVE-1											
S.No.	COURSE CATEGORY	COURSE TYPE	SEM	COURSE CODE	NAME OF THE COURSE						
1	DE	TP	III	ACA31500	MATLAB Programming	✓					
2	DE	TP	III	ACA31501	User Interface Design	✓					
3	DE	TP	III	ACA31502	Graphic Design	✓		✓			
4	DE	TP	III	ACA31503	Digital Media and Visual Effects	✓		✓			
5	DE	TP	III	ACA31504	Advanced Database Technologies	✓				✓	

6	DE	TP	III	ACA31505	Data Science Tools	✓		✓
DEPARTMENT ELECTIVE-2								
1	DE	TP	IV	ACA31508	Software Modeling Architecture	✓		
2	DE	TP	IV	ACA31509	Information Security	✓		
3	DE	TP	IV	ACA31510	2-D Animation & Editing	✓	✓	
4	DE	TP	IV	ACA31511	3-D Architectural Visualization & Visual FX	✓	✓	
5	DE	TP	IV	ACA31512	Data Modelling & Integration	✓		✓
6	DE	TP	IV	ACA31513	Databases in R Programming	✓		✓
DEPARTMENT ELECTIVE-3								
1	DE	TP	V	ACA31516	Agile Software Development	✓		
2	DE	TP	V	ACA31517	Computer vision	✓		
3	DE	TP	V	ACA31518	Advanced 3-D Animation	✓	✓	
4	DE	TP	V	ACA31519	Game Programming	✓	✓	

5	DE	TP	V	ACA31520	Applied Data Science	✓		✓
6	DE	TP	V	ACA31521	Data Engineering Foundations	✓		✓
DEPARTMENT ELECTIVE-4								
1	DE	TP	VI	ACA31522	Software Quality Management	✓		
2	DE	TP	VI	ACA31523	Block Chain Technology	✓		
3	DE	TP	VI	ACA31524	Augmented and Virtual Reality	✓	✓	
4	DE	TP	VI	ACA31525	Cartoon Animation and Special Effects	✓	✓	
5	DE	TP	VI	ACA31526	Data Analysis	✓		✓
6	DE	TP	VI	ACA31527	Data Vizualization	✓		✓
L – Lecture; T – Tutorial; P – Practical; C – Credit; S- Self Study; TCH- Total Contact Hours								