

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

ROYAL SCHOOL OF INFORMATION TECHNOLOGY

BSC IT (Honours/Honours with Research)

1st Semester			
Sl. No.	Subject Code	Names of subjects	Credit
Major			
1	INT052M101	Computer Fundamentals	3
2	INT052M102	Introduction to C Programming	3
Minor			
3	INT052N101	Fundamentals of Web Design	3
Interdisciplinary			
4	IKS992K101	Introduction to Indian Knowledge System-I	3
Ability Enhancement Courses (AEC)			
5	CEN982A101	Communicative English	2
	BHS982A102	Behavioural Science-I	
Skill Enhancement Courses (SEC)			
6	INT052S101	Windows Programming using C#	3
Value Addition Courses (VAC)			
7	VAC-1	Basket Course	3
8	MOOCS	One 8-week Course from SWAYAM /MOOCS as per the direction of the Department	2
		TOTAL	22
2nd Semester			
Sl. No.	Subject Code	Names of subjects	Credit
Discipline Specific Major (Major)			
1	INT052M201	Data Structures	3
2	INT052M202	Computer Architecture	3
Minor			

3	INT052N201	Server-Side Programming	3
Interdisciplinary			
4	IKS992K201	Indian Knowledge System II	3
Ability Enhancement Courses (AEC)			
5	AEC982A201	Communicative English and Behavioural Science-II	2
6	INT052S201	Computer Hardware and Networking	3
7	VAC992V2409	Basket Course (Cybersecurity - RSIT) (List Offered by University)	3
MOOCS			
8	MOOCS	One 8-week Course from SWAYAM /MOOCS as per the direction of the Department	2
		TOTAL	22
3rd Semester			
Sl. No.	Subject Code	Names of subjects	Credit
Major			
1	INT052M301	Java Programming	4
2	INT052M302	Database Management Systems	4
Minor			
3	INT052N301	Front-End Development with React (Offered to Others)	4
Interdisciplinary			
4	INT052I301	Introduction to Python (Offered to all by RSIT)	3
Ability Enhancement Courses (AEC)			
5	CEN982A301 BHS982A302	Communicative English III: Fundamentals of Business Communication Behavioural Science III	1+1
Skill Enhancement Courses (SEC)			
6	INT052S301	SEC-3 (System Administration)	3

MOOCS			
7	MOOCS	One 8-week Course from SWAYAM /MOOCS as per the direction of the Department	2
		TOTAL	22
4th Semester			
Sl. No.	Subject Code	Names of subjects	Credit
Major			
1	INT052M401	Operating Systems	4
2	INT052M402	Data Communication Networks	4
3	IKS052K403	Indian Knowledge System	4
Minor			
4	INT052N401	Front End Development with Angular	3
5	INT052N402	Server-Side Programming with Node JS	3
Ability Enhancement Courses (AEC)			
6	CEN982A401	Communicative English	1
7	BHS982A402	Behavioural Science-IV	1
MOOCS			
7	MOOCS	One 8-week Course from SWAYAM /MOOCS as per the direction of the Department	2

5 th Semester				
Sl. No.	Subject Code	Names of subjects		Credit
1	INT052M501	Web Technology		4
2	INT052M502	Python Programming		4
3	INT052M503/ INT052M504	Foundation of Artificial Intelligence/ Statistical Computing		4
4	INT052N501	Web Integration and Application		4
5	MOOCS	One 8-week Course from SWAYAM /MOOCS as per the direction of the Department		2
6	INT052I501	Summer Internship		4
		TOTAL		22
6 th Semester				
Sl. No.	Subject Code	Names of subjects		Credit
1	INT052M601	Software Engineering		4
2	INT052M602	Cryptography and Network Security		4
3	INT052M603/ INT052M604	Introduction to Machine learning /Introduction to Data science		4
4	INT052M605/ INT052M606	Introduction to Deep Learning /Introduction to Big Data Analytics		4
5	INT052N601	Secure Web Development		4
6	MOOCS	One 8-Week Course from SWAYAM /MOOCS as per the direction of the Department		2
		TOTAL		22

7 th Semester				
Sl. No.	Subject Code	Names of subjects		Credit
1	INT052M701	Cloud Computing		3
2	INT052M702	Introduction to Data Warehousing		3
3	INT052M703	Introduction to Natural Language Processing		3
4	INT052M704	Wireless Communication Network		3
5	INT052M711	Cloud Computing Lab		1
6	INT052M712	Introduction to Data Warehousing Lab		1
7	INT052M713	Introduction to Natural Language Processing Lab		1
8	INT052M714	Wireless Communication Network Lab		1
Minor				
5	INT052N701	Cloud-Based Web Development		4
MOOCS				
6	INT052Y701	One 8-week Course from SWAYAM /MOOCS as per the direction of the Department		2
		TOTAL		22
8 th Semester				
Sl. No.	Subject Code	Names of subjects		Credit
1	INT052M801	Soft Computing		3
2	INT052M811	Soft Computing Lab		1
2	INT052N801	Web Page Ranking and Optimization		4
3	INT052Y801	One 8-week Course from SWAYAM /MOOCS as per the direction of the Department		2
4		Dissertation		12
5	INT052M802	Soft Computing		4
6	INT052M803	Blockchain Technologies		4
7	INT052M804	Quantum Computing		4
		Total		22