Equivalent Subject for Old Syllabus B.Sc. (ECS) - I (Semester –I and II)

Sr. Name of the Old Paper (w.e.f.2019-20)	Semester-I		
English Paper I Part-A (communication skill) English Paper I Part-A (communication skill)	Sr.	Name of the Old Paper	Name of the New Paper
English Paper I Part-A (communication skill) 2 Fundamentals of Programming using C and C++ - I Programming using C 3 Fundamentals of Programming using C and C++ - II Programming using C 4 Computer System Architecture - I Linear Electronics 5 Computer System Architecture - II Digital Electronics 6 Fundamental of Computer system - I Fundamental of Computer 7 Fundamental of Computer system - II Operating System - I 8 Numerical Methods - I Numerical Method-I 9 Numerical Methods - II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper Name of the New Paper No. (w.e.f.2019-20) (w.e.f.2022-2023) 1 English Paper I Part-B (communication skill) 2 Programming in JAVA - I Python-I 3 Programming in JAVA - II Python-II 4 Discrete Structures - I Graph Theory (Sem-I) 5 Discrete Structures - I Introduction to Web Designing - II Introduction to Microcontroller 8 Digital Electronics - I Introduction to Microcontroller	No.	(w.e.f.2019-20)	(w.e.f.2022-2023)
C++-1 Programming using C Fundamentals of Programming using C and C++-II Computer System Architecture - I	1	English Paper I Part-A (communication skill)	English Paper I Part-A (communication skill)
Fundamentals of Programming using C and C++ - II Computer System Architecture - I Linear Electronics Computer System Architecture - II Digital Electronics Fundamental of Computer system - I Fundamental of Computer system - I Fundamental of Computer system - I Numerical Methods - I Numerical Method-II Semester-II Sr. Name of the Old Paper No. (w.e.f.2019-20) English Paper I Part-B (communication skill) Programming in JAVA - I Programming in JAVA - II Python-II Discrete Structures - II Discrete Structures - II Discrete Mathematics Introduction to Web Designing - II No Equivalence No Equivalence Introduction to Microcontroller	2	Fundamentals of Programming using C and	
C++ - II Programming using C++ 4 Computer System Architecture - I Linear Electronics 5 Computer System Architecture - II Digital Electronics 6 Fundamental of Computer system - I Fundamental of Computer 7 Fundamental of Computer system - II Operating System - I 8 Numerical Methods - I Numerical Method-I 9 Numerical Methods - II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper Name of the New Paper No. (w.e.f.2019-20) (w.e.f.2022-2023) 1 English Paper I Part-B (communication skill) English Paper I Part-B (communication skill) 2 Programming in JAVA - I Python-I 3 Programming in JAVA - II Python-II 4 Discrete Structures - I Graph Theory (Sem-I) 5 Discrete Structures - II Discrete Mathematics 6 Introduction to Web Designing - II Introduction to Meb Designing 7 Introduction to Web Designing - II Introduction to Microcontroller		C++ - I	Programming using C
4 Computer System Architecture – I Linear Electronics 5 Computer System Architecture – II Digital Electronics 6 Fundamental of Computer system – I Fundamental of Computer 7 Fundamental of Computer system – II Operating System – I 8 Numerical Methods – I Numerical Method-I 9 Numerical Methods – II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper (w.e.f.2019-20) (w.e.f.2022-2023) 1 English Paper I Part-B (communication skill) English Paper I Part-B (communication skill) 2 Programming in JAVA – I Python-I 3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	3	Fundamentals of Programming using C and	
5 Computer System Architecture – II Digital Electronics 6 Fundamental of Computer system – I Fundamental of Computer 7 Fundamental of Computer system – II Operating System – I 8 Numerical Methods – I Numerical Method-I 9 Numerical Methods – II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper (w.e.f.2019-20) (w.e.f.2022-2023) 1 English Paper I Part-B (communication skill) English Paper I Part-B (communication skill) 2 Programming in JAVA – I Python-I 3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II Introduction to Microcontroller		C++ – II	Programming using C++
6 Fundamental of Computer system – I 7 Fundamental of Computer system – II 8 Numerical Methods – I 9 Numerical Methods – II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper No. (w.e.f.2019-20) 1 English Paper I Part-B (communication skill) 2 Programming in JAVA – I 9 Python-I 9 Oliscrete Structures – I 9 Operating System – I 9 Numerical Method-II(Sem-II) Semester-II Semester-II Sr. Name of the New Paper (w.e.f.2022-2023) 1 English Paper I Part-B (communication skill) 2 Programming in JAVA – I 1 Operating System – I 1 English Paper II(Sem-II) 1 Operating System – I 2 Operating System – I 3 Op	4	Computer System Architecture – I	Linear Electronics
7 Fundamental of Computer system – II Operating System – I 8 Numerical Methods – I Numerical Method-I 9 Numerical Methods – II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper (w.e.f.2019-20) (w.e.f.2022-2023) 1 English Paper I Part-B (communication skill) English Paper I Part-B (communication skill) 2 Programming in JAVA – II Python-II 3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II Introduction to Microcontroller	5	Computer System Architecture – II	Digital Electronics
8 Numerical Methods – I 9 Numerical Methods – II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper (w.e.f.2019-20) 1 English Paper I Part-B (communication skill) 2 Programming in JAVA – I 9 Python-I 9 Programming in JAVA – II 9 Python-II 1 Discrete Structures – I 1 Graph Theory (Sem-I) 1 Discrete Structures – II 1 Discrete Mathematics 1 Introduction to Web Designing – II 1 No Equivalence 1 Introduction to Microcontroller	6	Fundamental of Computer system – I	Fundamental of Computer
9 Numerical Methods – II Numerical Method-II(Sem-II) Semester-II Sr. Name of the Old Paper (w.e.f.2019-20) 1 English Paper I Part-B (communication skill) 2 Programming in JAVA – I Python-I 3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II Introduction to Microcontroller	7	Fundamental of Computer system – II	Operating System – I
Semester-II Sr. Name of the Old Paper (w.e.f.2019-20) I English Paper I Part-B (communication skill) Programming in JAVA – I Python-I Programming in JAVA – II Python-II Discrete Structures – I Graph Theory (Sem-I) Discrete Structures – I Introduction to Web Designing Introduction to Web Designing – II No Equivalence Digital Electronics – I Introduction to Microcontroller	8	Numerical Methods – I	Numerical Method-I
Sr. Name of the Old Paper Name of the New Paper No. (w.e.f.2019-20) (w.e.f.2022-2023) 1 English Paper I Part-B (communication skill) English Paper I Part-B (communication skill) 2 Programming in JAVA – I Python-I 3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	9	Numerical Methods – II	Numerical Method-II(Sem-II)
No. (w.e.f.2019-20) English Paper I Part-B (communication skill) Programming in JAVA – I Python-I Python-II Discrete Structures – I Discrete Structures – II Introduction to Web Designing – I Introduction to Web Designing – II Digital Electronics – I Introduction to Microcontroller		Semeste	er-II
1 English Paper I Part-B (communication skill) 2 Programming in JAVA – I Python-I 3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	Sr.	Name of the Old Paper	Name of the New Paper
2 Programming in JAVA – II Python-II 3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	No.	(w.e.f.2019-20)	(w.e.f.2022-2023)
3 Programming in JAVA – II Python-II 4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	1	English Paper I Part-B (communication skill)	English Paper I Part-B (communication skill)
4 Discrete Structures – I Graph Theory (Sem-I) 5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	2	Programming in JAVA – I	Python-I
5 Discrete Structures – II Discrete Mathematics 6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	3	Programming in JAVA – II	Python-II
6 Introduction to Web Designing – I Introduction to Web Designing 7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	4	Discrete Structures – I	Graph Theory (Sem-I)
7 Introduction to Web Designing – II No Equivalence 8 Digital Electronics – I Introduction to Microcontroller	5	Discrete Structures – II	Discrete Mathematics
8 Digital Electronics – I Introduction to Microcontroller	6	Introduction to Web Designing – I	Introduction to Web Designing
	7	Introduction to Web Designing – II	No Equivalence
9 Digital Electronics – II Embedded System	8	Digital Electronics – I	Introduction to Microcontroller
į l	9	Digital Electronics – II	Embedded System

Equivalent Subject for Old Syllabus B.Sc. (Entire Computer Science) - II (Semester –III and IV)

Semester-III		
Sr.	Name of the Old Paper	Name of the New Paper
No.	(w.e.f.2017-18)	(w.e.f.2020-2021)
1	Object Oriented Programming Using C++	No Equivalence
2	Software Engineering	Software Engineering (Sem-III)
3	Operating System	Operating System (Sem-IV)
4	Data Structure	Data Structure using C++ -I (Sem-III)
5	Embedded System-I	No Equivalence
6	Advanced Microprocessor	No Equivalence
	Semes	ter-IV
Sr.	Name of the Old Paper	Name of the New Paper
No.	(w.e.f.2017-18)	(w.e.f.2020-2021)
1	Object Oriented Programming Using Java	No Equivalence
2	DBMS Using Oracle	Database Management System (Sem-IV)
3	Linux Operating System	Linux OS and Shell Scripting (Sem-IV)
4	Computer Graphics	No Equivalence
5	Embedded System-II	No Equivalence
6	Peripherals and Interfacing	No Equivalence

Equivalent Subject for Old Syllabus B.Sc. (Entire Computer Science) - III (Semester –V and VI)

	Semester-V		
Sr.	Name of the Old Paper	Name of the New Paper	
No.	(w.e.f.2018-19)	(w.e.f.2021-2022)	
1		English (Business English) Paper-II Part-A	
	English	(Sem-V)	
2	Data Communication and Networking - I	Data Communication and Networking (Sem-V)	
3	Theory of Computer Science	Theory of Computer Science (Sem-V)	
4	Visual Programming - I	No Equivalence	
5	Web technology and E-commerce –I	No Equivalence	
6	Python – I	No Equivalence	
	Semester	r-VI	
Sr.	Name of the Old Paper	Name of the New Paper	
No.	(w.e.f.2018-19)	(w.e.f.2021-2022)	
1	English	English (Business English) Paper-II Part-B	
		(Sem-VI)	
2	Data Communication and Networking – II	System Security (Sem-VI)	
3	Advanced Java	Advanced Java (Sem-V)	
4	Visual Programming -II	Visual Programming (Sem-V)	
5	Web technology and E-commerce –II	Internet Programming using ASP.Net (Sem-VI)	
6	Python - II	Advanced Python Programming (Sem-V)	

Punyashlok Ahilyadevi Holkar Solapur University, Solapur Faculty of Science and Technology Equivalent Subject for Old Syllabus BCA - I (Semester –I and II)

Semester-I		
Sr. No.	Name of the Old Paper (w.e.f.2019-20)	Name of the New Paper (w.e.f.2022-2023)
1	English Paper I Part-A (communication skill)	English Paper I Part-A (communication skill)
2	Fundamentals of Computer	Fundamentals of Computer
3	Logic Development With 'C' Programming	Programming and Problem Solving using 'C' – I
4	Basics of Web Programming – I	Web Programming-I
5	Software Engineering- I	No Equivalence
6	Basics of Mathematics – I	Basics of Mathematics
7	Statistical Methods-I	Descriptive Statistics
8	Digital Electronics	Fundamentals of Electronics
9	Development of Human Skills	No Equivalence
Sem	ester-II	,
Sr.	Name of the Old Paper	Name of the New Paper
No.	(w.e.f.2019-20)	(w.e.f.2022-2023)
1	English Paper I Part-B (communication skill)	English Paper I Part-B (communication skill)
2	Advanced Programming in C	Programming and Problem Solving using 'C' – II
3	Introduction to Operating System	Operating System
4	Basics of Web Programming – II	Web Programming-II
5	Office Automation	Office Automation
6	Basics of Mathematics – II	Graph Theory
7	StatisticalMethods-II	Probability Thoery
8	Introduction to Microprocessor	Introduction of Microprocessor and Interfacing
9	Software Engineering- II	No Equivalence

Equivalent Subject for Old Syllabus B.C.A. (Computer Science) - III (Semester –V and VI)

	Semester-V			
Sr.	Name of the Old Paper	Name of the New Paper		
No.	(w.e.f.2018-19)	(w.e.f.2021-2022)		
1	Core Java	Core Java (Sem-V)		
2	Visual Programming	Visual Programming (Sem-V)		
3	Linux and Shell Programming	Linux and Shell Programming (Sem-V)		
4	Computer Graphics	Computer Graphics (Sem-V)		
5	Data Warehouse and Data Mining	Data Warehouse and Data Mining (Sem-VI)		
6	Theory of Computation	No Equivalence		
	Semester-VI			
Sr.	Name of the Old Paper	Name of the New Paper		
No.	(w.e.f.2018-19)	(w.e.f.2021-2022)		
1	Advanced Java	Advanced Java (Sem-VI)		
2	Dot Net Technology	Dot Net Technology (Sem-VI)		
3	Recent Trends in IT	Recent Trends in IT (Sem-V)		
4	Cryptography and Network Security	Cryptography and Network Security (Sem-VI)		
5	System Programming	No Equivalence		

Equivalent Subject for Old Syllabus B.C.A. (Computer Science) - II (Semester –III and IV)

	Semester-III		
Sr.	Name of the Old Paper	Name of the New Paper	
No.	(w.e.f.2017-18)	(w.e.f.2020-2021)	
1	Data structures using 'C'	Data structures using 'C'-I (Sem-III)	
2	Networking & Data communication	Computer Networks-I (Sem-III)	
3	DBMS with Oracle	Database Management System (Sem-III)	
4	OOP with C++	OOPS with C++-I (Sem-III)	
5	Operations Research	No Equivalence	
	Semester-IV		
Sr.	Name of the Old Paper	Name of the New Paper	
No.	(w.e.f.2017-18)	(w.e.f.2020-2021)	
1	Software Testing	Software Testing & Quality Assurance (Sem-IV)	
2	Python	Python Programming (Sem-IV)	
3	Operating System	No Equivalence	
4	Advanced Web technology	Web Development using PHP (Sem-III)	
5	E- Governance	No Equivalence	