## Swarrnim Startup & Innovation University Swarrnim School of Computing & IT BSC-IT Honours Cross-Cutting Issues

		SEMESTER-I						
Sr.	Course Name	Human Values	Professional Ethics	Gender Sensitization	Environment Sustainability			
No. 1	Fundamentals of Computers	-	-	Operating System: ,Computer Fundamentals, Information Concepts & Processing System, Computer Network and Communication, Internet and its Applications:	-			
2	PROGRAMMING IN C	-	-	Introduction, Control flow, pointers and other data, "ACM Transactions on Programming Languages and Systems"				
3	Web Development Using HTML, CSS & XML	-	World Wide Web, Client, Side Scripting Languages	Browsers: Internet Explorer, Mozilla Firefox, Introduction to HTML, Khan Academy (www.khanacademy.org)				
(6).	Mathematical Foundation	-	Relations	Set theory, Properties of set operations (Commutative, Associative, Distributive, De-Morgan's laws). Relations and Functions, Differentiation	Equivalence relation, Limit, Differentiation: • Limit			



Communication Skills	Essential Skills For Success SWOT Analysis	Communication, Self	The Art of Attitude, Concept Of Happiness & Appreciation. Professional Interaction
Foundation of Entrepreneu	Cognitive foundations of entrepreneurship	Introduction to Entrepreneurship:	Characteristics or traits of successful entrepreneurs and myths related to entrepreneurship:
rship  Indian Science and Technology  7	India's Contribution to the World	Fundamentals: An overview of Indian contributions to technology, Technological Innovations, Water Management & Transportation Harappan and Traditional Water Management System of Gujarat,	
	SEMESTER-II		-
Data Structures using C	-	Continuous Implementation (Stack), Recursion, Sorting & Searching,	



	Database Management System		- F	File Organization Relational Data Model:	
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3	Mobile Application	-		Introduction to Mobile App     Development Programming for Mobile Apps	-
4	Foundation in Statistical Methods	-		Classification of data, Measures of dispersion, Meaning of Correlation, types of correlation,	
5	Logical & Critical Thinking	-	Blood Relations	Simplification and Approximation	Crypt arithmetic
6	Identifying Entrepreneurial Opportunities		Characteristics of brilliant business ideas Introduction:	Business Idea Creation & IPR, Business Model:	Opportunities: Their nature, discovery, and Creation
7	Environmental Studies		Human Population and Environment: Population Growth, World and Indian scenario, Population and Environmental Degradation, Malthusian theory,	Environmental pollutions:	Introduction to Environment a nd Environmental Studies, Natural Resources, Ecology and Ecosystems



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## Swarrnim Startup & Innovation University Swarrnim School of Computing & IT BCA Honours Cross-Cutting Issues

			SEMESTER-I		
Sr. No.	Course Name	Human Values	Professional Ethics	Gender Sensitization	Environment Sustainability
1	Fundamentals of Computers	-	-	Computer Fundamentals, Programming Languages, Information Concepts & Processing System, Elements of a Computer Processing System, Application Software, Computer Network and Communication, Computer Science Review	-
2	PROGRAMMING IN C	-	-	Introduction, Input-Output Functions, Software: Practice and Experience, Embedded Systems Design	-
3	Web Development Using HTML, CSS & XML	-	Computer Hope (www.computerhope.com)	World Wide Web, Web page, Home page, Web site, Static, Dynamic and Active web page, Overview of Protocols, Simple Mail Transfer Protocol, Gopher, Telnet, Emails, TFTP, Hyper Text Transfer Protocol, Client server computing concepts. Web Client and Web Sever Web Browser, Studytonight (www.studytonight.com) • Computer Science Unplugged (csunplugged.org),	1

				HowStuffWorks (www.howstuffworks.com)	
	Mathematical	-	-	Set theory, Relations and	-
	Foundation			Functions: Matrices and	
*			*	Determinants:, Limit,	
				Differentiation:	
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					D. J. Chille	SWOT Analysis, A'S Of
		Communication Skills	-	Fundamentals Of	People Skills ,	
		Communication skins		Communication, The Art of	Essential Skills For Success,	Dressing
- 1		_		Attitude	First Impressions , Self	
- 1				Concept Of Happiness &	Presentation Trainer will	
1		5		Appreciation	talk about how students can	
				Professional Interaction	present themselves to	
		1			others in various settings.	
		1			Selfpresentation plays a	
					crucial role in creating initial	
					impressions. A positive and	
					confident selfpresentation	
		4			can set the tone for	
					successful interactions and	
					relationships.,	
					Professional Ethics,	
					Polite Protocol Trainer will	
		,				
					explain the importance of	
					greeting etiquettes and talk	1
					about formal greetings and	
		19 July 19 Jul			informal greetings., Types of	
	2.4				Ethics	
$\vdash$			-	-	Introduction to	Characteristics or traits of
	* a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Entrepreneurship,	successful entrepreneurs and
	1		1		Cognitive foundations of	myths related to
		Foundation			entrepreneurship	entrepreneurship:
		of			Cita opi citosionip	
		Entrepreneu				
		rship				
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7	Indian Science and Technology	Bhaskaracarya, Ecology and Environment:	Innovations,	Metallurgy, Textile Chemistry Adjegic Elechnology, Water Management & Transport and Traditional Water Manage Gujarat, Historical Sites- Sringe Indian Water Management Sys Ghats, Cave- Kanheri, etc., Con in Water Management, Modes and Reforms, Grand Trunk Roa Dakshinapath), Development of Techniques, Boat & Ship Buildi			
SEMESTER-II							
	Data Structures using C	-	Continuous Implementation (Stack),Recursion,Trees, Sorting	-			
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	2	Object Oriented Concepts using C++	-	-	Introduction- Introducing Object , Inheritance and Polymorphism, Generic function-	-
	3	Core Java	-	-	Java Programming, classes	-
	4	Foundation in Statistical Methods	-	-	Classification of data, Measures of Central Tendency: Computation of Arithmetic mean, median and mode for ungrouped data and grouped data., Measures of dispersion: Computation of Range, Quartile deviation, mean deviation and Standard deviation Concept of Skewness, Karl Pearson's, (Numerical Applications Only)	-
	5 Lo	ogical & Critical Thinking	٠	Simplification and Approximation, Blood Relations, Number System	Crypt arithmetic, Analogy & Odd one out	Direction & Distance
	6	Identifying Entrepreneurial Opportunities	-	-	Opportunities: Their nature, discovery, and Creation:	Business Idea Creation & IPR
the & the novelle	7 E	nvironmental Studies	-	Human Population and Environment: Population	Definition and Components of Environment, Relationship	Introduction to Environment and Environmental Studies,

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Optimum theory, technology of Environment, Environmental			Growth, World and Indian scenario, Population and Environmental Degradation Malthusian theory, Optimum theory,	components of Environment, Man and Environment relationship, Impact of technology on Environment,	Natural Resources: , Ecology and Ecosystems: Environmental pollutions:
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