

CALCUTTA UNIVERSITY

Dr. MILAN KUMAR PAL, M.Sc., Ph.D. 0.S.D. UNIVERSITY OF CALCUTTA.

Ref No. CUS/196 (cir.)/16 Dated the 19th December, 2016 SENATE HOUSE

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То

The Principals /T.I.C. of all the Undergraduate Colleges offering B.A./B.Sc. (Honours) in Computer Science affiliated to the University of Calcutta

Sir/Madam,

The undersigned would like to forward you the Draft Syllabus for Computer Science (Honours), to be implemented from the academic session 2017-2018 to get feedback from the Department of Computer Science in your college.

You are requested to send your feedback within 06th January, 2017.

In this regard you may send your observation/ suggestion to the Department of U.G. Councils, C.U. or through email (u.g.councilsc.u@gmail.com), C.U. or you may contact Prof. Paramita Sikdar (Mob:9903980667; email: psikdar1961@yahoo.com).

Your cooperation in this regard will be highly appreciated. Kindly treat the matter as urgent.

Thanking you,

Enclo: Copy of the Draft Syllabus.

Yours faithfully, 2.4 (Milan Kr. Pal) O.S.D., C.U.

Proposed Syllabus for B.Sc in Computer Science Honours 2018-19, University Of Calcutta

<mark>Semester - 1</mark>			
Course Type	Subject	Practical	Remarks
Core	Digital Logic and System Design	Hardware Practical	Combinational and Sequential Circuits
	Problem Solving by Computer Programming Language	Programming language	Different Types of Problem Solving
Interdisciplinary	Business Software & its Commercial Application	Practical using related packages	
	Introduction to Electronic Devices	Analog Devices	
Ability	Communicative English	Improving communication skill in English.	
Semester - 2			
Course Type	Subject	Practical	Remarks
Core	Architecture	Hardware Practical	Construction of ALU, Control Unit, Registers etc
late all stalls such	Discrete Mathematics - I	Statistical Problem Solving	
Interdisciplinary	E- Commerce & Financial Management	Related Packages	
	Industrial Electronics	Electronic instruments/Devices in Industries	
Ability	Writing Document Generation		
Semester - III	Cultive	Durantian	Demender
Course Type	Subject	Practical	Remarks
Core Course	Data Structure	Language.	
	Operating System		
	Discrete Math - 2	Problems using	Problems related to Graph
		Programming Language	Theory, Differential
			Equations, Numerical
			Analysis, Matrix Algebra
Interdisciplinary	Business Management and	Related Practical	Tools, Assignment
	Industrial Electronics System	Different types of Control Circuits and their design	
	and Design		
Skill Based	Office Automation Tools	Open Office etc	
Semester - IV	Cubicat	Dreatical	Demente
Course Type	Subject	Practical Relational database Mans	Remarks
Core	System (DBMS)	e.g. MySQL, PostgresSQL, Oracle, Microsoft SQL Server.	
	Microprocessor and its	Programming Microproce	ssor 8085 using Assembly
	Application	Language Programming Techniques. Algorithms Design / Implementation using PYTHON	
Interdisciplingry	Programming Language - 1		
Interdisciplinary	Introduction to Robotics	Microcontrollers Embedded Systems	
	including microcontroller.		ica systems
Skill Based	Image Based Document	Photo Editing and other r	elated packages for
	Processing	document and image base	ed processing.
Semester- V			
Course Type	Subject	Practical	Remarks
Core	Introduction to Analysis of	Programming Language	
	Theory of Computation		
Disciplinary	Compiler Design	Related Practical	1
	Computer Graphics	Related Practical	
<mark>Semester - VI</mark>			
Course Type	Subject	Practical	Remarks
Core	Software Engineering	Project	and support 1
Disciplinant	Data Communication	Networking, LAN, WiFi based practical	
Disciplinary		Related Fackage, Wattab/Upen Source	
	Sompatational Biology	in open inclated to any p	