

No. 6-38/2018 (Annual System-HPU (Acad.)
Himachal Pradesh University
(NAAC Accredited "A" Grade University)
Academic Branch, Summer Hill, Shimla-5

Dated: 10/1/22

To


1. The Dean, Faculty of Physical Sciences, HPU, Shimla-5
2. The Controller of Examinations, HPU, Shimla-5.
3. The A.R Exam (UG), HPU, Shimla-5.
4. The D.R/ A.R Eval./Re.Eval./Conduct/Exams, HPU, Shimla-5.
5. The D. R Secrecy, HPU, Shimla-5. with 2 spare copies.
6. The S.O.Exam (UG,I,II,III) HPU, Shimla-5.
7. The Incharge(ERP), Computer Centre, Examination Wing, HPU, Shimla-5.

Subject: *Restructure Scheme of B.Sc. (Computer Science) 3rd Year CBCS Annual Pattern effective from Academic Session 2018-19.*

Sir/Madam,

I am sending herewith complimentary copy of syllabus *Restructure Scheme of B.Sc. (Computer Science) 3rd Year CBCS Annual Pattern effective from Academic Session 2018-19* duly approved by the Standing Committee of Academic Council in its meeting held ^{on} 25.10.2021 vide Item No.2, on the recommendations of the concerned Board of Studies/Faculty.

Yours faithfully,


Deputy Registrar (Acad)
HP University Shimla-5.

Dated: 10 JAN 2022

Endst. No. Even

Copy forwarded for information and necessary action to:

1. The Chairman, Deptt. of **Computer Science**, HPU, Shimla -5
2. All the principal of the Govt./ Non- Govt. colleges in H.P. (affiliated with HPU)/ Regional Centre Dharamshala/ HPUCES the Mall, Shimla-1.
- ✓ 3. The Web Admin, HPU, Shimla-5, with the request to upload this letter on the website of HPU.
4. The Dealing Assistant Meeting (Acad), HPU, Shimla-5, for information.
5. Guard file.


Deputy Registrar (Acad)

Scheme for UG Syllabus

(Effective from 2018-19)

Under

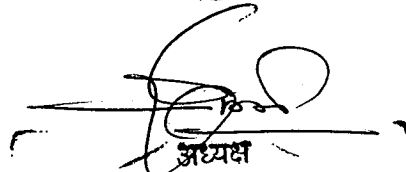
CHOICE BASED CREDIT SYSTEM (CBCS)

In

Bachelor of Science (Computer Science)



Department of Computer Science
Himachal Pradesh University
Shimla-5



अध्यक्ष
संगणक विज्ञान विभाग
हि०प्र० विश्वविद्यालय, शिमला - 5

Bachelor of Science (Computer Science)


HIMACHAL PRADESH UNIVERSITY
SYLLABUS AND SCHEME OF EXAMINATION FOR
B.Sc. (COMPUTER SCIENCE) (Effective from 2018-19 onwards)

3rd YEAR (Existing)						
COURSE TYPE	COURSE CODE	TITLE OF PAPER	CREDITS	ESE	CCA	TOTAL MARKS
DISCIPLINE SPECIFIC EFFECTIVES DSE: IA	COMP301TH	Operating System	6	70	30	100
DSE:2A	COMP302TH	Data Structure and File Processing	4	50	30	80
	COMP302PR	Data Structure and File Processing Lab	2	20	--	20
DSE:3A	COMP303TH	Project Work	6	70	30	100
DISCIPLINE SPECIFIC EFFECTIVES DSE: IB	COMP304TH	Web Technologies	6	70	30	100
DSE:2B	COMP305TH	Computer Graphics	6	70	30	100
DSE:3B	COMP306TH	Programming in Java	4	50	30	80
	COMP306PR	Programming in JavaLab	2	20	--	20
SEC 3	COMP307TH	Multimedia and Applications	4	70	30	100
SEC 4	COMP308TH	Software Engineering	4	70	30	100

Proposed (New)

B. Sc (Computer Science) 3rd Year

Course Type	Course Code	Title of Paper	Credits	ESE	CCA	Total
Discipline Specific Electives DSE:1A (Choose Any One from Given Three)	PHYS301TH PHYS301IA	Elements of Modern Physics Theory	4	50	30	80
	PHY301PR	Elements of Modern Physics Lab	2	20	-	20
	PHYS302TH PHYS302IA	Solid State Physics and Electronics Theory	4	50	30	80
	PHYS302PR	Solid State Physics and Electronics Lab	2	20	-	20
	PHYS303TH PHYS303IA	Astronomy and Astrophysics Theory	4	50	30	80
	PHYS303TU	Astronomy and Astrophysics Tutorials	2	20	-	20
Discipline Specific Elective DSE:2A (Choose Any One from Given Three)	COMP301TH	Operating System	6	70	30	100
	COMP305TH	Computer Graphics	6	70	30	100
	COMP306TH	Programming in Java	4	50	30	80
	COMP306PR	Programming in Java Lab	2	20	-	20
Discipline Specific Elective DSE:3A (Choose Any One from Given Three)	MATH301TH MATH301IA	Matrices	6	70	30	100
	MATH302TH MATH302IA	Mechanics	6	70	30	100
	MATH303TH MATH303IA	Linear Algebra	6	70	30	100
Discipline Specific Electives DSE:1B (Choose Any One from Given Three)	PHYS304TH PHYS304IA	Nuclear and Particle Physics Theory	4	50	30	80
	PHYS304TU	Nuclear and Particle Physics Tutorials	2	20	-	20
	PHYS305TH PHYS305IA	Quantum Mechanics Theory	4	50	30	80
	PHYS305PR	Quantum Mechanics Lab	2	20	-	20
	PHYS306TH PHYS306IA	Physics of Devices and Instruments Theory	4	50	30	80
	PHYS306PR	Physics of Devices and Instruments Lab	2	20	-	20
Discipline Specific Elective DSE:2B (Choose Any One from Given Three)	COMP302TH	Data Structure and File Processing	4	50	30	80
	COMP302PR	Data Structure and File Processing Lab	2	20	-	20
	COMP303TH	Project Work	6	70	30	100
	COMP304TH	Web Technologies	6	70	30	100
Discipline Specific Elective DSE:3B (Choose Any One from Given Three)	MATH304TH MATH304IA	Numerical Methods	6	70	30	100
	MATH305TH MATH305IA	Complex Analysis	6	70	30	100
	MATH306TH MATH306IA	Linear Programming	6	70	30	100
SEC 3	COMP307TH	Multimedia and Applications	4	70	30	100
SEC 4	COMP308TH	Software Engineering	4	70	30	100


 Head of Department
 Department of Computer Science
 B. Sc. (Computer Science) 3rd Year