Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

**Bachelor of Arts (Basic/ Hons.)/ Bachelor of Science (Basic/ Hons.)/ Bachelor of Commerce (Basic/Hons.)/
Bachelor of Business Administration (Basic/Hons.)/Bachelor of Social Works (Basic/Hons.)/ Bachelor of Computer Applications (Basic/Hons.) etc.**

The Government of India has notified NEP-2020 on July 29, 2020 based on Dr. Kasturirangan Committee's Report. The objective is to bridge the gap between the current system of education and what is required in the 21st century. It is to have Holistic and Multidisciplinary UG Education to produce employable graduates with integrated personality.

The Government of Karnataka had constituted a Task to suggest an Implementation Framework for NEP-2020. It had also constituted two sub-committees, one on Curriculum Reforms in Higher Education and the other on Governance and Regulations.

The Task Force has suggested NEP-2020 Implementation Framework for Karnataka. The State Government has accepted the action plan and taken steps to implement NEP-2020, as per the Implementation Roadmap suggested by the Task Force.

The Sub-committee on Curriculum Reforms in Higher Education had suggested a Draft Curriculum Framework for Undergraduate Programs in various disciplines. The State Govt. had also constituted Faculty-wise Committees to consider this draft framework to formulate program structures in their faculties. These Committees have submitted their reports. The latter were considered in the meetings of all the Vice Chancellors. The following Model Program Structures were designed for various Under-Graduate Programs in Arts, Science, Commerce and Management. The Subject Committees constituted to design and draft the curriculum in their subjects have to follow these Model Program Structures. The Terminology used in these Program Structures are s.

Discipline Core (DSC) refers to Core Papers in a Subject or Discipline

Discipline Elective (DSE) refers to Elective Papers in the core Subject or Discipline.

Open Elective (OE) refers to Elective Papers in a non-core Subject across all disciplines.

Program Structures also contain Ability Enhancement Compulsory Courses (AECC), Languages, Skill Enhancement Courses (SEC) (Both skills and value based). Pedagogy involves L+T+P model. Generally subjects with practicals involve L+P, while the subjects without practicals involve L+T model. The numbers in parentheses indicate credits allotted to various courses/papers as per definitions of Choice Based Credit System (CBCS). Generally 1 hour of Lecture or 2 hours of practicals per week in a semester is assigned one credit. Generally core subject theory papers will have 3 or 4 credits, while practicals are assigned 2 or 3 credits.

IA. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Commerce (Basic/Hons.)/Bachelor of Business Administration (Basic/Hons.)/Bachelor of Social Works (Basic/Hons.) etc.

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	DSC-1 (4) DSC-2 (4) DSC-3 (4)	OE-1 (3)	L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	DSC-4 (4) DSC-5 (4) DSC-6 (4)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate in Commerce/Business Administration/Computer Applications etc. (48 credits)							
III	DSC-7 (4) DSC-8 (4) DSC-9 (4)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	DSC-10 (4) DSC-11 (4) DSC-12 (4)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma in Commerce/Business Administration/ Computer Applications etc. (96 credits)							
V	DSC-13 (4) DSC-14 (4) DSC-15 (4)	DSE-1 (3) Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	DSC-16 (4) DSC-17 (4) DSC-18 (4)	DSE-2 (3) Vocational-2 (3)			SEC-4: Professional Communication (2)		20
Exit Option with Bachelor of Commerce/Bachelor of Business Administration/Bachelor of Computer Applications Degree (136 credits)							
VII	DSC-19 (4) DSC-20 (4) DSC-21 (3)	DSE-3 (3) Vocational-3 (3) Res. Methodology(3)					20
VIII	DSC 22 (4) DSC 23 (4)	DSE-4 (3) Vocational-4 (3) Research Project(6)*					20
Award of Bachelor of Commerce/Bachelor of Business Administration/Bachelor of Computer Applications Honours Degree (176 credits),							

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IB. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka
Bachelor of Commerce (Basic/Hons.) with Commerce as core subject

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Com-C1 (4) Com-C2 (4) Com-C3 (4)	OE-1 (3)	L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Com-C4 (4) Com-C5 (4) Com-C6 (4)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate in Commerce/Business Administration/Computer Applications etc. (48 credits)							
III	Com-C7 (4) Comj-C8 (4) Com-C9 (4)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Com-C10 (4) Com-C11 (4) Com-C12 (4)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma in Commerce/Business Administration/ Computer Applications etc. (96 credits)							
V	Com-C13 (4) Com-C14 (4) Com-C15 (4)	Com-E1 (3) Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Com-C16 (4) Com-C17 (4) Com-C18 (4)	Com-E2 (3) Vocational-2 (3)			SEC-4: Professional Communication (2)		20
Exit Option with Bachelor of Commerce/Bachelor of Business Administration/Bachelor of Computer Applications Degree (136 credits)							
VII	Com-C19 (4) Com-C20 (4) Com-C21 (3)	Com-E3 (3) Vocational-3 (3) Res. Methodology(3)					20
VIII	Com-C22 (4) Com-C23 (4)	Com-E4 (3) Vocational-4 (3) Research Project(6)*					20
Award of Bachelor of Commerce/Bachelor of Business Administration/Bachelor of Computer Applications Honours Degree (176 credits),							

*In lieu of the research Project, two additional elective papers/ Internship may be offered

IC. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Computer Applications (Basic/Hons.) with Computer Applications as core subject

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective (DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	CA C-1 (3+2) CA C-2 (3+2) CA C-3 (3)	OE-1 (3)	L1-1 (3), L2-1 (3)(3+1+0 each)	Environmental Studies (2)			24
II	CA C-4 (3+2) CA C-5 (3+2) CA C-6 (3)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)		SEC-1: ? (2)	Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	24
Exit option with Certificate in Commerce/Business Administration/Computer Applications etc. (48 credits)							
III	CA C-7 (3+2) CA C-8 (3+2) CA C-9 (3)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)	Constitution of India (2)			24
IV	CA C-10 (3+2) CA C-11 (3+2) CA C-12 (3)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)		SEC-2: ? (2))	Sports/NCC/NSS etc. (2) (1+0+2)	24
Exit option with Diploma in Computer Applications (96 credits)							
V	CA C-13 (3+2) CA C-14 (3+2) CA C-15 (3)	CA E-1 (3) Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	21
VI	CA C-16 (3+2) CA C-17 (3+2) CA C-18 (3)	CA E-2 (3) Vocational-2 (3)			SEC-4: Professional Communication (2)		21
Exit Option with Bachelor of Computer Applications Degree, BCA Degree (136 credits)							
VII	CA C-19(3+2) CA C-20(3+2)	CA E-3 (3) Vocational-3 (3) Res.methodology (3)					19
VIII	CA C-21 (4) CA C-22 (3)	CA E-4 (3) Vocational-4 (3) Research Project(6)*					19
Award of Bachelor of Computer Applications Honours Degree, BCA (Hons.) Degree (176 credits)							

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IIA. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Arts (Basic/ Hons.)/ Bachelor of Science (Basic/ Hons.) etc. (for subjects with practicals) with one major and one minor

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(4+2) Discipline B1(4+2)	OE-1 (3)	L1-1 (3), L2-1(3) (3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A2(4+2) Discipline B2(4+2)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health and Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Discipline A3(4+2) Discipline B3(4+2)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Discipline A4(4+2) Discipline B4(4+2)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits)							
Choose any one Discipline as Major, the other as the Minor							
V	Discipline A5(3+2) Discipline A6(3+2) Discipline B5(3+2)	DSE A-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Discipline A7(3+2) Discipline A8(3+2) Discipline B6(3+2)	DSE A-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Arts, B.A. / Bachelor of Science, B. Sc. Basic Degree (136 credits)							
VII	Discipline A9(3+2) Discipline A10(3+2) Discipline A11(4)	DSE A-3 (3) Res. Methodology (3)					20
VIII	Discipline A12(4) Discipline A13(4) Discipline A14(3)	DSE A-4 (3) Research Project (6)*					20
Award of Bachelor of Arts Honours, B.A. (Hons.)/ Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits)							

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IIA. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/ Hons.) etc. (with Botany & Zoology as subjects with practicals) with one major and one minor

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Botany A1(4+2) Zoology B1(4+2)	OE-1 (3)	L1-1 (3), L2-1(3) (3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Botany A2(4+2) Zoology B2(4+2)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Botany A3(4+2) Zoology B3(4+2)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Botany A4(4+2) Zoology B4(4+2)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma in Science (96 credits)							
Choose any one Discipline as Major, the other as the Minor							
V	Botany A5(3+2) Botany A6(3+2) Zoology B5(3+2)	Botany E-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Botany A7(3+2) Botany A8(3+2) Zoology B6(3+2)	Botany E-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science Degree, B. Sc. Degree in Botany and Zoology (136 credits)							
VII	Botany e A9(3+2) Botany A10(3+2) Botany e A11(4)	Botany E-3 (3) Res. Methodology (3)					20
VIII	Botany e A12(4) Botany A13(4) Botany A14(3)	Botany E-4 (3) Research Project (6)*					20
Award of Bachelor of Science Honours Degree, B.Sc. (Hons.) Degree in Botany (176 credits)							

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IIB. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Arts (Basic/ Hons.)/ Bachelor of Science (Basic/ Hons.) etc. (for subjects without practicals) with one major and one minor

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(3), A2(3) Discipline B1(3), B2(3)	OE-1 (3)	L1-1 (3), L2-1(3) (3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A3(3), A4(3) Discipline B3(3), B4(3)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)						
III	Discipline A5(3), A6(3) Discipline B5(3), B6(3)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2:Artificial Intelligence (2)(1+0+2)		23
IV	Discipline A7(3), A8(3) Discipline B7(3), B8(3)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits)/ Choose any one Discipline as Major, the other as the Minor						
V	Discipline A 9(4) Discipline A10(4) Discipline B 9(4)	DSE A-1 (3) Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Awareness (2) (1+0+2)?	20
VI	Discipline A11(4) Discipline A12(4) Discipline B10(4)	DSE A-2 (3) Vocational-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Arts, B.A. / Bachelor of Science, B. Sc. Basic Degree (136 credits)						
VII	Discipline A-13(4) Discipline A-14(4) Discipline A-15(3)	DSE A-3 (3) DSE A-4 (3) Res.Methodology (3)					20
VIII	Discipline A-16(4) Discipline A-17(4) Discipline A-18(3)	DSE A-5 (3) Research Project (6)*					20
Award of Bachelor of Arts Honours, B.A. (Hons.)/ Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits)						

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IIB. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Arts (Basic/ Hons.) (for subjects without practicals) with Economics as major and History as minor

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	History C1(3), C2(3) Economics C1(3), C2(3)	OE-1 (3)	L1-1 (3), L2-1(3) (3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	History C3(3), C4(3) Economics C3(3), C4(3)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
	Exit option with Certificate (48 credits)						
III	History C5(3), C6(3) Economics C5(3), C6(3)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2:Artificial Intel-ligence (2)(1+0+2)		23
IV	History C7(3), C8(3) Economics C7(3), C8(3)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
	Exit option with Diploma in Arts (96 credits) OR Choose any one subject as Major and the other as Minor						
V	History C 9(4) Economics C 9(4) Economics C10(4)	Economics E-1 (3) Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	History C10(4) Economics C11(4) Economics C12(4)	Economics E-2 (3) Vocational-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
	Exit option with Bachelor of Arts, B.A. Degree in History and Economics (136 credits)						
VII	Economics C13(4) Economics C14(4) Economics C15(3)	Economics E-3 (3) Economics E-4 (3) Res.Methodology (3)					20
VIII	Economics C16(4) Economics C17(4) Economics C18(3)	Economics E-5 (3) Research Project (6)*					20
	Award of Bachelor of Arts Honours Degree, B.A. (Hons.) Degree in Economics (176 credits)						

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IIC. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Arts (Basic/ Hons.)/ Bachelor of Science (Basic/ Hons.) etc. (for one subject with practicals and the other without practicals) with one major and one minor

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(4+2) Discipline B1(3), B2(3)	OE-1 (3)	L1-1 (3), L2-1(3) (3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A2(4+2) Discipline B3(3), B4(3)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
			Exit option with Certificate (48 credits)				
III	Discipline A3(4+2) Discipline B5(3), B6(3)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2:Artificial Intel-ligence (2)(1+0+2)		23
IV	Discipline A4(4+2) Discipline B7(3), B8(3)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
			Exit option with Diploma (96 credits)/ Choose any one Discipline as Major, the other as the Minor				
V	Discipline A 5(3), A6(3) Discipline A 7(2)(P) Discipline B 9(4)	DSE A-1 (3) Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Discipline A 8(3), A9(3) Discipline A10(2)(P) Discipline B10(4)	DSE A-2 (3) Vocational-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
			Exit option with Bachelor of Arts, B.A. / Bachelor of Science, B. Sc. Basic Degree (136 credits)				
VII	Discipline A11(3), A12(3) Discipline A13(3) Discipline A14(2)(P)	DSE A-3 (3) DSE A-4 (3) Res.Methodology (3)					20
VIII	Discipline A15(3), A16(3) Discipline A17(3) Discipline A18(2)(P)	DSE A-5 (3) Research Project (6)*					20
			Award of Bachelor of Arts Honours, B.A. (Hons.)/ Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits)				

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IIC. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Arts (Basic/ Hons.)/ Bachelor of Science (Basic/ Hons.) etc. (for Physics with practicals and Mathematics without practicals) with Physics as major and Mathematics as minor

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Physics C1(4+2) Maths C1(3), C2(3)	OE-1 (3)	L1-1 (3), L2-1(3) (3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Physics C2(4+2) Maths C3(3), C4(3)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Physics C3(4+2) Maths C5(3), C6(3)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2:Artificial Intel-ligence (2)(1+0+2)		23
IV	Physics C4(4+2) Maths C7(3), C8(3)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits) OR Choose any one Discipline as Major and the other as Minor, if Physics is major and Maths is minor then							
V	Physics C5(3), C6(3) Physics C7(2) (P) Maths C9(4)	Physics E-1 (3) Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Physics C8(3), C9(3) Physics C10(2)(P) Maths C10(4)	Physics E-2 (3) Vocational-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science Degree, B. Sc. Basic Degree (136 credits)							
VII	Physics C11(3), C12(3) Physics C13(3) Physics C14(2)(P)	Physics E-3 (3) Physics E-4 (3) Res.Methodology (3)					20
VIII	Physics C15(3), C16(3) Physics C17(3) Physics C18(2)(P)	Physics E-5 (3) Research Project (6)*					20
Award of Bachelor of Science Honours Degree, B.Sc. (Hons) degree in Physics (176 credits)							

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IIIA. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Arts (Basic/Hons.)/Bachelor of Science (Basic/Hons.) (for subjects with practicals with both subjects as majors in 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(4+2) Discipline B1(4+2)	OE-1 (3)	L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A2(4+2) Discipline B2(4+2)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Discipline A3(4+2) Discipline B3(4+2)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Discipline A4(4+2) Discipline B4(4+2)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits)							
V	Discipline A5(3+2) Discipline A6(3+2) Discipline B5(3+2)	DS-B Elective 1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Discipline A7(3+2) Discipline B6(3+2) Discipline B7(3+2)	DS-A Elective 1 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Arts, B.A. / Bachelor of Science, B. Sc. Basic Degree (136 credits)							
Choose any one Discipline as Major							
VII	Discipline A/B-8(3+2) Discipline A/B-9(3+2) Discipline A/B-10(4)	DS-A/B Elective 2(3) Res. Methodology(3)					20
VIII	Discipline A/B-11(4) Discipline A/B-12(4)	DS-A/B Elective 3(3) DS-A/B Elective 4(3) Research Project (6)*					20
Award of Bachelor of Arts Honours, B.A. (Hons.)/ Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered.

IIIB. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Arts (Basic/ Hons.)/Bachelor of Science (Basic/ Hons.) etc. (for subjects without practicals with both subjects as majors in 3rd yr)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(3), A2(3) Discipline B1(3), B2(3)	OE-1 (3)	L1-1 (3), L2-1(3) (3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A3(3), A4(3) Discipline B3(3), B4(3)	OE-2 (3)	L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Discipline A5(3), A6(3) Discipline B5(3), B6(3)	OE-3 (3)	L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2:Artificial Intel-li-gence (2)(1+0+2)		23
IV	Discipline A7(3), A8(3) Discipline B7(3), B8(3)	OE-4 (3)	L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits)							
V	Discipline A9(4), A10(4) Discipline B9(4), B10(3)	Vocational-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Discipline A11(4), A12(3) Discipline B11(4), B12(4)	Vocational-2 (3)			SEC-4: Professional/ Societal Commun(2)		20
Exit option with Bachelor of Arts, B.A. / Bachelor of Science, B. Sc. Basic Degree (136 credits)							
Choose any one Discipline as Major							
VII	Discipline A/B-13(4) Discipline A/B-14(4) Discipline A/B-15(3)	DS-A/B Elective 1(3) DS-A/B Elective 2(3) Res. Methodology(3)					20
VIII	Discipline A/B-16(4) Discipline A/B-17(4)	DS-A/B Elective 3(3) DS-A/B Elective 4(3) Research Project (6)*					20
Award of Bachelor of Arts Honours, B.A. (Hons.)/ Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits							

*In lieu of the research Project, two additional elective papers/ Internship may be offered.

IV. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/Hons.) etc. (for three subjects with practicals with one major and one minor subjects in the 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(3+2) Discipline B1(3+2) Discipline C1(3+2)		L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A2(3+2) Discipline B2(3+2) Discipline C2(3+2)		L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Discipline A3(3+2) Discipline B3(3+2) Discipline C3(3+2)		L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Discipline A4(3+2) Discipline B4(3+2) Discipline C4(3+2)		L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits) or choose one of the subjects as major and the second as the minor for the third year							
V	Discipline A5(3+2) Discipline A6(3+2) Discipline B5(3+2)	OE-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Discipline A7(3+2) Discipline A8(3+2) Discipline B6(3+2)	OE-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science, B. Sc. Basic Degree (136 credits) or Choose any one Discipline as Major for the fourth year							
VII	Discipline A9(3+2) Discipline A10(3+2) Discipline A11(3)	DS-A Elective 1(3) DS-A Elective 2(3) Res.methodology(3)					22
VIII	Discipline A12(3) Discipline A13(3)	DS-A Elective 3(3) DS-A Elective 4(3) Research Project (6)*					18
Award of Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered.

IV. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/Hons.) etc. (for three subjects with practicals with Physics as major and Chemistry as minor in the 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Physics A1(3+2) Chemistry B1(3+2) Maths C1(3+2)		L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Physics A2(3+2) Chemistry B2(3+2) Maths C2(3+2)		L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Physics A3(3+2) Chemistry B3(3+2) Maths C3(3+2)		L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Physics A4(3+2) Chemistry B4(3+2) Maths C4(3+2)		L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits) or choose one of the subjects as major and the second as the minor for the third year							
V	Physics A5(3+2) Physics A6(3+2) Chemistry B5(3+2)	OE-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Physics A7(3+2) Physics A8(3+2) Chemistry B6(3+2)	OE-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science, B. Sc. Basic Degree (136 credits) or Choose any one Discipline as Major for the fourth year							
VII	Physics A9(3+2) Physics 10(3+2) Physics A11(3)	Physics Elective-1(3) Physics Elective-2(3) Res.methodology(3)					22
VIII	Physics A12(3) Physics A13(3)	Physics Elective-3(3) Physics Elective-4(3) Research Project (6)*					18
Award of Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered.

V. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/Hons.) etc. (for three subjects with practicals with two subjects as majors in the 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(3+2) Discipline B1(3+2) Discipline C1(3+2)		L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A2(3+2) Discipline B2(3+2) Discipline C2(3+2)		L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Discipline A3(3+2) Discipline B3(3+2) Discipline C3(3+2)		L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Discipline A4(3+2) Discipline B4(3+2) Discipline C4(3+2)		L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits) or choose any two subjects for the third year							
V	Discipline A5(3+2) Discipline A6(3+2) Discipline B5(3+2)	OE-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Discipline A7(3+2) Discipline B6(3+2) Discipline B7(3+2)	OE-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science, B. Sc. Basic Degree (136 credits) or Choose any one Discipline as Major for the fourth year							
VII	Discipline A/B-8(3+2) Discipline A/B-9(3+2) Discipline A/B-10(3)	DS-A/B Elective 2(3) DS-A/B Elective 3(3) Res. Methodology(3)					22
VIII	Discipline A/B-11(3) Discipline A/B-12(3)	DS-A/B Elective 4(3) DS-A/B Elective 5(3) Research Project (6)*					18
Award of Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (176 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered.

V. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/Hons.) etc. (for three subjects with practicals with Physics & Chemistry as major subjects in the 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Physics A1(3+2) Chemistry B1(3+2) Maths C1(3+2)		L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Physics A2(3+2) Chemistry B2(3+2) Maths C2(3+2)		L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Physics A3(3+2) Chemistry B3(3+2) Maths C3(3+2)		L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Physics A4(3+2) Chemistry B4(3+2) Maths C4(3+2)		L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits) or choose any two subjects for the third year							
V	Physics A5(3+2) Physics A6(3+2) Chemistry B5(3+2)	OE-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Physics A7(3+2) Chemistry B6(3+2) Chemistry B7(3+2)	OE-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science, B. Sc. Basic Degree (136 credits) or Choose any one Discipline as Major for the fourth year							
VII	Chemistry B-8 (3+2) Chemistry B-9 (3+2) Chemistry B-10(3)	Chemistry Elective-1(3) Chemistry Elective-2(3) Res. Methodology(3)					22
VIII	Chemistry B-11(3) Chemistry B-12(3)	Chemistry Elective-4(3) Chemistry Elective-5(3) Research Project (6)*					18
Award of Bachelor of Science Honours Degree, B.Sc. (Hons) Degree in Chemistry (176 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered.

VI. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/Hons.) etc. (for three subjects with practicals with all the three subjects in the 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Discipline A1(3+2) Discipline B1(3+2) Discipline C1(3+2)		L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Discipline A2(3+2) Discipline B2(3+2) Discipline C2(3+2)		L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Discipline A3(3+2) Discipline B3(3+2) Discipline C3(3+2)		L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Discipline A4(3+2) Discipline B4(3+2) Discipline C4(3+2)		L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits)							
V	Discipline A5(3+2) Discipline B5(3+2) Discipline C5(3+2)	OE-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Discipline A6(3+2) Discipline B6(3+2) Discipline C6(3+2)	OE-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science, B. Sc. Basic Degree (136 credits) or Choose any one Discipline as Major for the fourth year							
VII	Discipline A7(3+2) Discipline A8(3+2) Discipline A9(3)	DS-A Elective 1(3) DS-A Elective 2(3) Res. Methodology(3)					22
VIII	Discipline A10(3) Discipline A11(3) Discipline A12(3)	DS-A Elective 3(3) DS-A Elective 4(3) Research Project (6)*					21
Award of Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline etc. (179 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered.

VIA. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/Hons.) etc. (with all three subjects with practicals (Physics, Chemistry & Maths) in the 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Physics A1(3+2) Chemistry B1(3+2) Maths C1(3+2)		L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Physics A2(3+2) Chemistry B2(3+2) Maths C2(3+2)		L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Physics A3(3+2) Chemistry B3(3+2) Maths C3(3+2)		L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Physics A4(3+2) Chemistry B4(3+2) Maths C4(3+2)		L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits)							
V	Physics A5(3+2) Chemistry B5(3+2) Maths C6(3+2)	OE-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Aware-ness (2) (1+0+2)?	20
VI	Physics A6(3+2) Chemistry B6(3+2) Maths C6(3+2)	OE-2 (3)			SEC-4: Professional/ Societal Communication (2)		20
Exit option with Bachelor of Science, B. Sc. Basic Degree (136 credits) or Choose any one Discipline as Major for the fourth year							
VII	Physics A7(3+2) Physics A8(3+2) Physics A9(3)	Physics Elective-1(3) Physics Elective-2(3) Res. Methodology(3)					22
VIII	Physics A10(3) Physics A11(3) Physics e A12(3)	Physics Elective-3(3) Physics Elective-4(3) Research Project (6)*					21
Award of Bachelor of Science Honours Degree, B.Sc. (Hons.) Degree in Physics (179 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered

VIB. Model Program Structures for the Under-Graduate Programs in Universities and Colleges in Karnataka

Bachelor of Science (Basic/Hons.) etc. (with all three subjects with practicals (Chemistry, Botany and Zoology) in the 3rd year)

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective(DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)	
I	Chemistry A1(3+2) Botany B1(3+2) Zoology C1(3+2)		L1-1 (3), L2-1 (3)(3+1+0 each)		SEC-1: Digital Fluency (2) (1+0+2)		23
II	Chemistry A2(3+2) Botany B2(3+2) Zoology C2(3+2)		L1-2(3), L2-2 (3) (3+1+0 each)	Environmental Studies (2)		Health & Wellness/ Social & Emotional Learning (2) (1+0+2)	25
Exit option with Certificate (48 credits)							
III	Chemistry A3(3+2) Botany B3(3+2) Zoology C3(3+2)		L1-3 (3), L2-3(3) (3+1+0 each)		SEC-2: Artificial Inte-elligence (2)(1+0+2)		23
IV	Chemistry A4(3+2) Botany B4(3+2) Zoology C4(3+2)		L1-4 (3), L2-4(3) (3+1+0 each)	Constitution of India (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
Exit option with Diploma (96 credits)							
V	Chemistry A5(3+2) Botany B5(3+2) Zoology C6(3+2)	OE-1 (3)			SEC-3: Cyber Security (2) (1+0+2)	Ethics & Self Awareness (2) (1+0+2)?	20
VI	Chemistry A6(3+2) Botany B6(3+2) Zoology C6(3+2)	OE-2 (3)			SEC-4: Professional Communication (2)		20
Exit option with Bachelor of Science, B. Sc. Basic Degree (136 credits) or Choose any one Discipline as Major for the fourth year							
VII	Chemistry A7(3+2) Chemistry A8(3+2) Chemistry A9(3)	Chemistry Elective-1(3) Chemistry Elective-2(3) Res. Methodology(3)					22
VIII	Chemistry A10(3) Chemistry A11(3) Chemistry A12(3)	Chemistry Elective-3(3) Chemistry Elective-4(3) Research Project (6)*					21
Award of Bachelor of Science Honours Degree, B.Sc. (Hons) degree in Chemistry (179 credits)							

*In lieu of the research project, two additional elective papers/ Internship may be offered