

**STATE MODEL SYLLABUS FOR UNDER  
GRADUATE  
COURSE IN POLITICAL SCIENCE  
(Bachelor of Arts Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**

*KRals*

### Course structure of UG Political Science Honours

Semester	Course	Course Name	Credits	Total marks
<b>I</b>	AECC-I	AEC-I	04	100
	C-I	Understanding Political Theory	06	100
	C-II	Constitutional Government and Democracy in India	06	100
	GE-I	Feminism: Theory and Practice	06	100
			<b>22</b>	
<b>II</b>	AECC-II	AEC-II	4	100
	C-III	Political Theory-Concepts and Debates	06	100
	C-IV	Political Process in India	06	100
	GE-II	Governance: Issues and Challenges	06	100
			<b>22</b>	
<b>III</b>	C-V	Introduction to Comparative Government and Politics	06	100
	C-VI	Introduction to Public Administration	06	100
	C-VII	Perspectives on International Relations	06	100
	GE-III	Gandhi and the Contemporary World	06	100

*VPals*

	SEC-I	SEC-I(to be selected by the University/College from the Repertoire of SEC courses)	04	100
			<b>28</b>	
IV	C-VIII	Political Processes and Institutions in Comparative Perspective	06	100
	C-IX	Public Policy and Administration in India	06	100
	C-X	Global Politics	06	100
	GE-IV	United Nations and Global Conflicts	06	100
	SEC-II	SEC-II (to be selected by the University/College from the Repertoire of SEC courses)	04	100
			<b>28</b>	
Semester	Course	Course Name	Credits	Total marks
V	C-XI	Western Political Philosophy	06	100
	C-XII	Indian Political Thought( Ancient & Medieval)	06	100
	DSE-I	Introduction to Human Rights	06	100
	DSE-II	Development Process and Social Movements in Contemporary India	06	100
			24	
VI	C-XIII	Contemporary Political Philosophy	06	100

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	C-XIV	Modern Indian Political Thought	06	100
	DSE-III	India's Foreign Policy in a Changing world	06	100
	DSE-IV	Women, Power and Politics	06	100
	<b>OR</b>			
	DSE-IV	Dissertation	06	100*
			<b>24</b>	

**Discipline Specific Elective Papers: (Credit: 06 each) (4 papers to be selected by students of Political Science Honours): DSE 1-IV**

1. Human Rights in a Comparative Perspective
2. Development Process and Social Movements in Contemporary India (PROJECT)
3. India's Foreign Policy in a Globalizing world
4. Women, Power and Politics
5. Project \*Dissertation (can be opted as alternative of DSE-IV only and of 6 credits. **Dissertation content: 50, Seminar: 30, Viva: 20) as per regulation**

## POLITICAL SCIENCE

### HONOURS PAPERS:

Core course – Designated as CI to C XIV i.e. 14 papers

Discipline Specific Elective (DSE) – 4 papers

Generic Elective (GE) for non Public Administration students– 4 papers. In case University offers 2 subjects as GE, then papers 1 and 2 will be the GE paper.

Marks per paper - Midterm: 20 marks, End term : 80 marks, Total – 100 marks

*VPals*

**SYLLABUS FOR UNDERGRADUATE  
COURSE IN HISTORY**

**(Bachelor of Arts Examination)**

**UNDER**

**CHOICE BASED CREDIT SYSTEM**

Semester	Course	Course Name	Credit	Total marks
Semester-I	AECC-I	AECC-I	4	100
	C 1	History of India-I	6	100
	C 2	Social Formations and Cultural Patterns of the Ancient World	6	100
	GE-I	History of India-I (Early Times to 1750)	6	100
Semester-II	AECC-II	AECC-II	4	100
	C 3	History of India-II	6	100
	C 4	Social Formations and Cultural Patterns of the Medieval World	6	100
	GE-II	History of India – II (1750-1950)	6	100
Semester-III	C 5	History of India-III (c.750-1206)	6	100
	C 6	Rise of Modern West-I	6	100
	C 7	History of India-IV (c.1206-1526)	6	100
	GE-III	Rise of the Modern West – I	6	100
	SEC-I	SEC-I	4	100
Semester-IV	C 8	Rise of Modern West-II	6	100
	C 9	History of India-V (c.1526-1750)	6	100
	C 10	Historical Theories and Methods	6	100
	SEC-II	SEC-II	4	100
	GE-IV	Rise of the Modern West – II	6	100
Semester-V	C 11	History of Modern Europe-I(c.1780-1880)	6	100
	C 12	History of India-VII (1750-1857)	6	100
	DSE-I	History and Culture of Odisha - I	6	100
	DSE-II	History and Culture of Odisha - II	6	100
Semester-VI	C 13	History of India-VIII (C.1857-1950)	6	100
	C 14	History of Modern Europe-II(1880-1939)	6	100
	DSE-III	History and Culture of Odisha- III	6	100

	DSE-IV	Project Report	6	100
		Total	148	2600

## HISTORY

HONOURS PAPERS:

Core course – 14 papers

*12/25*

**STATE MODEL SYLLABUS FOR  
UNDER GRADUATE  
COURSE IN EDUCATION  
(Bachelor of Arts Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**



**Course structure of UG Education Honours**

Semester	Course	Course Name	Credits	Total marks
<b>I</b>	AECC-I	AECC-I	04	100
	C-I	Educational Philosophy	04	75
	C-I Practical		02	25
	C-II	Educational Psychology	04	75
	C-II Practical		02	25
	GE-I	GE-I	04	75
	GE-I Practical		02	25
			<b>22</b>	
<b>II</b>	AEC-II	AEC-II	04	100
	C-III	Educational Sociology	04	75
	C-III Practical		02	25
	C-IV	Changing Pedagogical Perspective	04	75
	C-IV Practical		02	25
	GE-II	GE-II	04	75
	GE-II Practical		02	25
			<b>22</b>	
<b>III</b>	C-V	Educational Assessment and Evaluation	04	75
	C-V Practical		02	25
	C-VI	Educational Research	04	75
	C-VI Practical		02	25
	C-VII	Statistics in Education	04	75
	C-VII Practical		02	25
	GE-III	GE-III	04	75
	GE-III Practical		02	25
SEC-I	SEC-I	04	100	
			<b>28</b>	
<b>IV</b>	C-VIII	History of Education in India	04	75
	C-VIII Practical		02	25
	C-IX	Curriculum Development	04	75
	C-IX Practical		02	25

*VPals*

**BA Education (Honours, Elective & Pass) Syllabus 2019-2020**

	C-X	Guidance and Counseling	04	75
	C-X Practical		02	25
	GE-IV	GE-IV	04	75
	GE-IV Practical		02	25
	SEC-II	SEC-II	04	100
			<b>28</b>	
Semester	Course	Course Name	Credits	Total marks
V	C-XI	Development of Education in Odisha	04	75
	C-XI Practical		02	25
	C-XII	Information and Communication Technology in Education	04	75
	C-XII Practical		02	25
	DSE-I	A. Pedagogy of language (English) B. Pedagogy of language (Odia)	04	75
	DSE-I Practical		02	25
	DSE-II	A. Pedagogy of Social Sciences B. Pedagogy of Mathematics	04	75
	DSE-II Practical		02	25
			<b>24</b>	
VI	C-XIII	Contemporary Trends and Issues in Indian Education	04	75
	C-XIII Practical		02	25
	C-XIV	Educational Management and Leadership	04	75
	C-XIV Practical		02	25
	DSE-III	A. Policy and Practices in School Education in India B. Policy and Practices in Higher Education in India	04	75
	DSE-III Practical		02	25
	DSE-IV	Inclusive Education (Theory)	04	75
	DSE-IV Practical		02	25
	<b>OR</b>			
	DSE-IV	Dissertation	06	100*
			<b>24</b>	

*CPass*

# **STATE MODEL SYLLABUS FOR UNDERGRADUATE COURSE IN ODIA**

**+3, Arts, Science & Commerce**

**(Under Choice Based Credit System)**

*CR 2015*

# ପଞ୍ଚମ ଓ ଆସ୍ଥାଭିତ୍ତିକ ପାଠ୍ୟପ୍ରଣାଳୀ : ସ୍ନାତକ (ଓଡ଼ିଆ ସମ୍ମାନ)

୨୦୧୯-୨୦

CBCS : BA (Hons.) 2019-20

## Core Course - ପ୍ରଧାନ ପାଠ୍ୟାଂଶ

ମୋଟ ପଢ଼ା ସଂଖ୍ୟା - ୧୪

ପ୍ରତ୍ୟେକ ପଢ଼ା - ୧୦୦ ମୂଲ୍ୟାଙ୍କ ବିଶିଷ୍ଟ (୨୦ ନମ୍ବର ମହାବିଦ୍ୟାଳୟ ସ୍ତରୀୟ ଅକ୍ଟୋ ପର୍ଯ୍ୟାୟ ପରୀକ୍ଷା + ୮୦ ବିଶ୍ୱବିଦ୍ୟାଳୟ ସ୍ତରୀୟ ମାନକ ଅକ୍ତିମ ପରୀକ୍ଷା)

ସମ୍ମାନ : ଜଣେ ସ୍ନାତକ - ସମ୍ମାନର (ଅନର୍ସ) ବିଦ୍ୟାର୍ଥୀ - ମୋଟ ୧୪୦୦ ନମ୍ବରର ପରୀକ୍ଷା ଦେବେ ।

କ) ଅତି କମ୍ରେ (ମୋଟ) ୫୦ଟି କାର୍ଯ୍ୟ ନିର୍ଦ୍ଦେଶ (ପିରିୟଡ୍)ରେ ଗୋଟିଏ ପଢ଼ା ପାଠଦାନ ଶେଷ ହେବ ।  
ଗୋଟିଏ କାର୍ଯ୍ୟ ନିର୍ଦ୍ଦେଶ ବା ପିରିୟଡ୍-୪୫ ମିନିଟ୍)

ଖ) ପ୍ରତ୍ୟେକ ପଢ଼ା ୪ ଗୋଟି ଯୁନିଟ୍ / ଏକକ / ଉପାଂଶରେ ବିଭକ୍ତ ହୋଇଛି ।

ଗ) ପ୍ରତ୍ୟେକ ପଢ଼ା ୬ ଆସ୍ଥାଭିତ୍ତିକ କାର୍ଯ୍ୟ ନିର୍ଦ୍ଦେଶ (୪ + ୨ କ୍ରେଡିଟ୍) ପାଇବେ । ଗୋଟିଏ ଆସ୍ଥାଭିତ୍ତିକ କାର୍ଯ୍ୟ ନିର୍ଦ୍ଦେଶର ମହତ୍ତ୍ୱ ହେଉଛି - ୧୦ ପିରିୟଡ୍ ସହିତ ସମାନ ।

ମୋଟ ୧୪ ଗୋଟି ସମ୍ମାନ ପଢ଼ାର ଆସ୍ଥାମୂଲ୍ୟାଙ୍କ (କ୍ରେଡିଟ୍) ହେଉଛି -  $୧୪ \times ୬ (୪ + ୨) = ୮୪$  ।

ଏଥିମଧ୍ୟରୁ  $୧୪ \times ୪ = ୫୬$  ତାତ୍ତ୍ୱିକ ପାଠ (Theory) ରହିବ ।

ଘ) ପରୀକ୍ଷା ପର୍ଯ୍ୟାୟକ୍ରମ (Semester) ଓ ପ୍ରସାବିତ ପାଠ ଯୋଜନା :

ପ୍ରଥମ ଶିକ୍ଷାବର୍ଷ

୧ମ ପର୍ଯ୍ୟାୟ

ଦୁଇଟି ପଢ଼ା ୧ମ ଓ ୨ୟ ପଢ଼ା -  $୧୦୦ + ୧୦୦ = ୨୦୦$  ନମ୍ବର  
(୧ମ ଓ ୨ୟ ପ୍ରଧାନ ପାଠ୍ୟାଂଶ)

୨ୟ ପର୍ଯ୍ୟାୟ

ଦୁଇଟି ପଢ଼ା ୩ୟ / ୪ର୍ଥ ପଢ଼ା  $୧୦୦ + ୧୦୦ = ୨୦୦$  ନମ୍ବର  
(୩ୟ ଓ ୪ର୍ଥ ପ୍ରଧାନ ପାଠ୍ୟାଂଶ)

ଦ୍ୱିତୀୟ ଶିକ୍ଷାବର୍ଷ

୩ୟ ପର୍ଯ୍ୟାୟ

ତିନୋଟି ପଢ଼ା ୫ମ, ୬ଷ୍ଠ ଓ ୭ମ ପଢ଼ା (୫ମ, ୬ଷ୍ଠ, ୭ମ ପ୍ରଧାନ ପାଠ୍ୟାଂଶ)  
 $୧୦୦ + ୧୦୦ + ୧୦୦ = ୩୦୦$  ନମ୍ବର

KRals

୪ର୍ଥ ପର୍ଯ୍ୟାୟ

ଦୁଇଟି ପତ୍ର ୮ମ, ୯ମ ଓ ୧୦ମ ପତ୍ର- (୮ମ, ୯ମ, ୧୦ମ ପ୍ରଧାନ ପାଠ୍ୟାଂଶ)  
 $୧୦୦+୧୦୦+୧୦୦= ୩୦୦$  ନମ୍ବର

ତୃତୀୟ ଶିକ୍ଷାବର୍ଷ

୫ମ ପର୍ଯ୍ୟାୟ

ଦୁଇଟି ପତ୍ର ୧୧ଶ ଓ ୧୨ଶ ପତ୍ର (୧୧ଶ, ୧୨ଶ ପ୍ରଧାନ ପାଠ୍ୟାଂଶ)  
 $୧୦୦ + ୧୦୦ = ୨୦୦$  ନମ୍ବର

୬ଷ୍ଠ ପର୍ଯ୍ୟାୟ

ଦୁଇଟି ପତ୍ର ୧୩ଶ ଓ ୧୪ଶ ପତ୍ର (୧୩ଶ, ୧୪ଶ ପ୍ରଧାନ ପାଠ୍ୟାଂଶ)  
 $୧୦୦ + ୧୦୦ = ୨୦୦$  ନମ୍ବର

ଶିକ୍ଷା ଅବଧି

୬ଟି ପରୀକ୍ଷା

୧୪ଗୋଟି ମୋଟ = ୧୪୦୦ ନମ୍ବର

୩ ବର୍ଷ ୬ଟି ପର୍ଯ୍ୟାୟ ପତ୍ର

3 years Course	Total Semester-6	Total paper 14	Total number 1400	Total credits $14 \times 6 (4+2) = 84$
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ବିଦ୍ୟାର୍ଥୀମାନଙ୍କ ମୁକ୍ତ ମେଧାବୃତ୍ତି ପରୀକ୍ଷା ପାଇଁ ସେମାନଙ୍କ ପସନ୍ଦ ଓ ବୋଧଜ୍ଞାନମୂଳକ ଦୀର୍ଘ ଓ ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନ ପରୀକ୍ଷା ନିମନ୍ତେ ଉପସ୍ଥାପନା କରାଯିବ ।

ନମ୍ବର / ମୂଲ୍ୟାଙ୍କ ବିଭାଜନ ପଦ୍ଧତି :

୧. ପ୍ରତ୍ୟେକ ପ୍ରଧାନ ପାଠ୍ୟାଂଶ ବା ପ୍ରତ୍ୟେକ ପତ୍ର - ୧୦୦ ନମ୍ବର ବିଶିଷ୍ଟ
୨. ମହାବିଦ୍ୟାଳୟ ସ୍ତରୀୟ ଅଳ୍ପପରୀକ୍ଷା - ୨୦ ନମ୍ବର
- ବିଶ୍ୱବିଦ୍ୟାଳୟ ସ୍ତରୀୟ ମୁଖ୍ୟ ପରୀକ୍ଷା - ୮୦ ନମ୍ବର

୩. ବିଶ୍ୱବିଦ୍ୟାଳୟ ସ୍ତରୀୟ ମୁଖ୍ୟ ପରୀକ୍ଷା ନିମନ୍ତେ ନିମ୍ନମତେ ପ୍ରଶ୍ନ ହେବ :

- କ) ପ୍ରତ୍ୟେକ ପତ୍ରର ପ୍ରତ୍ୟେକ ଏକକରୁ ୨ଟି କରି ୮ଟି ୧୫ ନମ୍ବର ବିଶିଷ୍ଟ ଦୀର୍ଘ ପ୍ରଶ୍ନ ପଢ଼ିବ । ବିଦ୍ୟାର୍ଥୀ ସେଥିରୁ ୪ଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବେ । ପ୍ରତ୍ୟେକ ଏକକରୁ ଗୋଟିଏ ଲେଖାଏଁ ପ୍ରଶ୍ନର ଉତ୍ତରଦେବା ବାଧ୍ୟତାମୂଳକ । ( $୪ \times ୧୫ = ୬୦$  ନମ୍ବର)
- ଖ) ପ୍ରତ୍ୟେକ ପତ୍ରର ପ୍ରତି ଏକକରୁ ୧୫ଟି ୨ ନମ୍ବର ବିଶିଷ୍ଟ ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନ ପଢ଼ିବ; ବିଦ୍ୟାର୍ଥୀ ସେଥିରୁ ୧୦ଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବେ । ( $୨ \times ୧୦ = ୨୦$ )

ବିଶେଷ ଦୃଷ୍ଟବ୍ୟ -

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ଓଡ଼ିଆ ସମ୍ମାନ ୧୧ଶ ପତ୍ର, ୧୨ଶ ପତ୍ର, ୧୩ଶ ପତ୍ର ଓ ୧୪ଶ ପତ୍ର ଥିବା ପ୍ରତ୍ୟେକ ପତ୍ରର ପଞ୍ଚମ ଏକକର ପ୍ରକଳ୍ପ ପାଇଁ ୨୦ ନମ୍ବର ଓ ଅଳ୍ପ ପରୀକ୍ଷା ପାଇଁ ୧୦ ନମ୍ବର ରହିବ ।

କ) ମୋଟ୍ ନମ୍ବର - ୧୦୦

ଖ) ଅଳ୍ପ ପରୀକ୍ଷା - ୨୦ ଓ ମୁଖ୍ୟ ପରୀକ୍ଷା - ୭୦

ଗ) ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତି - ୨୦

ଘ) ମୁଖ୍ୟ ପରୀକ୍ଷାରେ ପ୍ରତ୍ୟେକ ପତ୍ରର ପ୍ରଥମ ତାରୋଟି ଏକକରୁ ଦୁଇଟି ଲେଖାଏଁ ୧୫ ନମ୍ବର ବିଶିଷ୍ଟ ୮ଟି ଦୀର୍ଘ ପ୍ରଶ୍ନ ପଢ଼ିବ; ସେଥିରୁ ପ୍ରତ୍ୟେକ ଏକକରୁ ଗୋଟିଏ ଲେଖାଏଁ ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବା ବାଧ୍ୟତାମୂଳକ । (୧୫ X ୪ = ୬୦)

ଙ) ପ୍ରଥମ ୪ଟି ଏକକରୁ ୨ ନମ୍ବର ବିଶିଷ୍ଟ ୧୫ଟି ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନ ପଢ଼ିବ । ସେଥିରୁ ୧୦ଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବାକୁ ହେବ । (୧୦ X ୨ = ୨୦)

ପ୍ରକଳ୍ପଗୁଡ଼ିକ ସାହିତ୍ୟଭିତ୍ତିକ ହେବା ଆବଶ୍ୟକ । ବିଭାଗମୁଖ୍ୟଙ୍କ ଅନୁମୋଦନକ୍ରମେ ବିଭାଗର ସମସ୍ତ ଅଧ୍ୟାପକ ଓ ଅଧ୍ୟାପିକାଙ୍କ ମଧ୍ୟରେ ଦିଗ୍‌ଦର୍ଶନ ନିମନ୍ତେ ସମାନ ଭାବରେ ବାଣ୍ଟିଦିଆଯିବ ।

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**SYLLABUS FOR UNDERGRADUATE  
COURSE IN HINDI**

**(Bachelor of Arts Examination)**

**UNDER**

**CHOICE BASED CREDIT SYSTEM**

*VPals*

## Hindi

### HONOURS PAPERS:

Core course – 14 papers

Discipline Specific Elective – 4 papers

Generic Elective for non Hindi Students – 4 papers. In case University offers 2 subjects as GE, then papers 1 and 2 will be the GE paper.

Marks per paper - Midterm: 20 Marks, End term: 80 Marks Total – 100 marks

Credit per paper – 6

Teaching hours per paper – 50 hours (Theory) + 10 hours (Tutorial)

### PASS PAPERS:

Discipline Specific Core – 4 papers

Discipline Specific Elective – 2 papers

Marks per paper - Midterm: 20 Marks, End term: 80 marks; Total – 100 marks

Credit per paper – 6

Teaching hours per paper – 40 hours (theory) + 20 hours (tutorial)

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**Core Course - I**  
हिन्दी साहित्य का इतिहास (भाग - 1)

**UNIT - I**

हिन्दी साहित्य के प्रमुख इतिहास ग्रन्थ (केवल परिचय),  
काल विभाजन एवं नामकरण।

**UNIT - II**

आदिकाल की पृष्ठभूमि, आदिकाल के प्रमुख कवि, आदिकाल की प्रमुख  
रचनाएँ, आदिकाल की प्रमुख काव्य प्रवृत्तियाँ।

**UNIT - III**

भक्तिकाल की पृष्ठभूमि और प्रवृत्तियाँ, निर्गुण काव्यधारा (ज्ञान मार्ग एवं प्रेम  
मार्ग) निर्गुण काव्यधारा के प्रमुख कवि एवं रचनाएँ।

सगुण काव्यधारा की प्रवृत्तियाँ और विशेषताएँ, रामभक्ति शाखा, कृष्ण  
भक्ति शाखा, प्रमुख कवि एवं रचनाएँ।

**UNIT - IV**

रीतिकाल की पृष्ठभूमि, रीति काव्य का परिचय, प्रमुख कवि और उनकी  
रचनाएँ, प्रवृत्तियाँ

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**STATE MODEL SYLLABUS FOR UNDER  
GRADUATE  
COURSE IN ECONOMICS  
(Bachelor of Arts Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**

*CRals*

## Course structure of UG Economics Honours

Semester	Course	Course Name	Credits	Total marks
I	AECC-I	AECC-I	04	100
	C-I	Introductory Microeconomics	06	100
	C-II	Mathematical Methods for Economics I	06	100
	GE-I	Indian Economy	06	100
				<b>22</b>
II	AECC-II	AECC-II	04	100
	C-III	Introductory Macroeconomics	06	100
	C-IV	Mathematical Methods for Economics II	06	100
	GE-II	Indian Economy II	06	100
				<b>22</b>
III	C-V	Microeconomics I	06	100
	C-VI	Macroeconomics I	06	100
	C-VII	Statistical Methods for Economics	06	100
	GE-III	Introductory Microeconomics	06	100
	SEC-I	SEC-I	04	100
			<b>28</b>	
IV	C-VIII	Microeconomics II	06	100
	C-IX	Macroeconomics II	06	100
	C-X	Research Methodology	06	100

*KRals*

	GE-IV	Introductory Macroeconomics	06	100
	SECC-II	SECC-II	04	100
			<b>28</b>	
Semester	Course	Course Name	Credits	Total marks
<b>V</b>	C-XI	Indian Economy I	06	100
	C-XII	Development Economics I	06	100
	DSE-I	1. Economic History of India (1857-1947) or 2. Public Economics	06	100
	DSE-II	1. Introductory Econometrics or 2. Odisha Economy or 3. Money and Banking	06	100
			<b>24</b>	
<b>VI</b>	C-XIII	Indian Economy II	06	100
	C-XIV	Development Economics II	06	100
	DSE-III	1. Environmental Economics or 2. History of Economic Thought	06	100
	DSE-IV	1. International Economics or 2. Agricultural Economics or 3. Project/Dissertation	06	100

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## ECONOMICS

### HONOURS PAPERS:

Core course – 14 papers

Discipline Specific Elective – 4 papers (out of the 9 papers suggested)

Generic Elective for non Public Administration students – 4 papers. In case University offers 2 subjects as GE, then papers 1 and 2 will be the GE paper.

Marks per paper - Midterm : 20 marks, End term : 80 marks, Total – 100 marks

Credit per paper – 6

Teaching hours per paper – 50 hours + 10 hours tutorial

Dissertation : (content : 50; Seminar : 30; Viva Voce : 20)

### Core Paper I

#### INTRODUCTORY MICROECONOMICS

##### Introduction:

This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

##### Unit I: Exploring the Subject Matter of Economics, Markets and Welfare

The Ten Principles of Economics: How people make decisions; Working of the economy as a whole; Thinking Like an Economist: The economist as Scientist – The scientific method: Observation, Theory and more observation; Role of Assumptions; Economic Models; Why economists disagree; Graphs in Economics

The Market Forces; Markets and Competition; The Demand and Supply curves – Market vs Individual curves. Shifts in Demand and Supply Curves; Market Equilibrium and changes there in; Price Elasticity of Demand – determinants and computation; Income and Cross Elasticity of Demand; The Price Elasticity of Supply – determinants and computation; Consumer and Producer Surplus.

##### Unit II: Theory of Consumer Choice

The Budget Constraint; Preferences – representing preferences with indifference curves; Properties of Indifference Curves; Two extreme examples of indifference curves; Optimization – Equilibrium; Change in equilibrium due to changes in income, changes in price; Income and Substitution Effect; Derivation of Demand Curve; Three applications – Demand for Giffen goods, Wages and Labour Supply, Interest rate and Household saving.

##### Unit III: The Firm and Market Structures

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**STATE MODEL SYLLABUS FOR  
UNDERGRADUATE  
COURSE IN PHILOSOPHY  
(Bachelor of Arts Examination)**

Under Choice Based Credit System

*VPals*

Semester		<b>CORE COURSE (14)</b>	<b>Ability Enhancement Compulsory Course (AECC) (2)</b>	<b>Skill Enhancement Compulsory Course (SECC)(2)</b>	<b>Elective: Discipline Specific DSE (4)</b>	<b>Elective: Generic (GE) (4)</b>
I	CC I	General Philosophy	Environmental Science or English/MIL Communication			<b>GE-I</b> Symbolic Logic
	CCII	Logic and Scientific Method				
II	CCIII	Systems of Indian Philosophy -I	Environmental Science or			<b>GE-II</b> Indian

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	CCIV	Symbolic Logic				
III	CCV	Ethics		SECC - I		GE-III History of Modern European Philosophy
	CCVI	History of Greek Philosophy				
	CCVII	Systems of Indian Philosophy (II)				
IV	CCVIII	Contemporary Indian Philosophy		SECC-II		GE- IV Ethics: Theory and Practice
	CCIX	History of Modern European Philosophy				
	CCX	Philosophy of Language				
V	CCXI	Western Classics: Meditations of Rene Descartes			DSE-I PHILOSOPHY OF BHAGAVAD GITA	
	CCXII	Indian Text; Isa Upanishad			DSE-II PHILOSOPHY OF RELIGION	
VI	CCXIII	Social & Political Philosophy			DSE-III GANDHIAN STUDIES	
	CC XIV	Applied Ethics			DSE- IV RECENT WESTERN PHILOSOPHY/ PROJECT	

### PHILOSOPHY

### PHILOSOPHY-HONOURS

Core course – 14 papers

Discipline Specific Elective – 4 papers

**Skill Enhancement Compulsory Course-2 papers** Generic Elective for non Philosophy students – 4 papers. In case University offers 2 subjects as GE, then papers 1 and 2 will be the GE paper.

Marks per paper - Midterm : 20 marks, End term : 80 marks, Total – 100 marks

Credit per paper – 6, Teaching hours per paper – 50 hours + 10 hours tutorial

### CC I: GENERAL PHILOSOPHY

**Unit-I:** Definition, Nature & Function of Philosophy, and Philosophy in relation to other modes of thinking like Science & Religion.

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**STATE MODEL SYLLABUS FOR UNDER  
GRADUATE  
COURSE IN GEOGRAPHY  
(Bachelor of Arts Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**

*CR 2015*

## GEOGRAPHY

Semester		CORE COURSE (14)	Ability Enhancement Compulsory Course (AECC) (2)	Skill Enhancement Elective Course (AEEC) (2) (Skill Based)	Elective: Discipline Specific DSE (4)	Elective: Generic (GE) (4)
I	CC1	Geomorphology	English Communication/ Odia/ Hindi			GE-I Geography of India
	CCII	Cartography				
II	CCIII	Human Geography	Environmental Studies			GE-II Geography of Odisha
	CCIV	Climatology				
III	CCV	Oceanography		SEC -I  Communicative English and English Writing		GE-III  Climatology
	CCVI	Statistical Methods in Geography				
	CCVII	Geography of Odisha				
IV	CCVIII	Evolution of Geographical Thought		SEC II University Option		GE- IV Human Geography
	CCIX	Economic Geography				
	CCX	Environmental Geography				
V	CCXI	Regional Planning and Development			DSE-I Population Geography	
	CCXII	Remote Sensing & GIS			DSE -II Resource Geography	
VI	CCXIII	Geography of India			DSE -III Urban Geography	
	CC XIV	Disaster management			DSE – IV or Dissertation/ Project Work	

*1/10/25*



# **Kalahandi University**

**Bhawanipatna**

**SYLLABUS FOR  
UNDERGRADUATE COURSE  
IN COMMERCE  
(Bachelor of Commerce Examination)**

**2020-21**

*CPals*

## U.G. Commerce Syllabus

Paper	Subject	Paper Code	Full Marks	End-term Marks	Mid-term Marks	Credit Points
<b>Semester I</b>						
1.1	Environmental Studies	AECC -1	100	80	20	4
1.2	Financial Accounting	CORE-1	100	80	20	6
1.3	Business Law	CORE-2	100	80	20	6
1.4	Micro Economics	GE-1	100	80	20	6
	<b>Total</b>		<b>400</b>			<b>22</b>
<b>Semester II</b>						
2.1	MIL	AECC-2	100	80	20	4
2.2	Cost Accounting	CORE-3	100	80	20	6
2.3	Corporate Law	CORE-4	100	80	20	6
2.4	Macro & Indian Economy	GE-2	100	80	20	6
	<b>Total</b>		<b>400</b>			<b>22</b>
<b>Semester III</b>						
3.1	Corporate Accounting	CORE-5	100	80	20	6
3.2	Income-tax Law and Practice	CORE-6	100	80	20	6
3.3	Management Principles and Application	CORE-7	100	80	20	6
3.4	Business Statistics	GE-3	100	80	20	4
3.5	Quantitative & Logical Thinking	SEC-1	100	80	20	4
	<b>Total</b>		<b>500</b>			<b>28</b>
<b>Semester IV</b>						
4.1	GST and Indirect Taxes	CORE-8	100	80	20	6
4.2	Fundamentals of Data Management (End Term Exam = 60, Practical = 25, Mid-term = 15)	CORE-9	100	60+25	15	6
4.3	Management Accounting	CORE-10	100	80	20	6
4.4	Principles of Marketing	GE-4	100	80	20	6
4.5	Communicative English	SEC-2	100	80	20	4
	<b>Total</b>		<b>500</b>			<b>28</b>
<b>Semester V</b>						
5.1	Computerized Accounting & E-filing of Tax Returns (End Term Exam = 60, Practical = 25, Mid-term = 15)	CORE-11	100	60+25	15	6
5.2	Fundamentals of Financial Management	CORE-12	100	80	20	6
5.3	Elective I (Any one of the following)	DSE-1	100	80	20	6

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	<b>A. Accounting and Finance</b>	Financial Markets, Institutions & Services					
	<b>B. Banking and Insurance</b>	Indian Banking and Insurance System					
	<b>C. Management</b>	Human Resource Management					
5.4	Elective II (Any one of the following)		DSE-2	100	80	20	6
	<b>A. Accounting and Finance</b>	Financial Statement Analysis and Reporting					
	<b>B. Banking and Insurance</b>	Merchant Banking and Financial Services					
	<b>C. Management</b>	International Business					
	<b>Total</b>			<b>400</b>			<b>24</b>
<b>Semester VI</b>							
				100	80	20	6
6.1	Auditing and Corporate Governance		CORE-13				
6.2	Business Mathematics		CORE-14	100	80	20	6
6.3	Elective III (Any one of the following)		DSE-3	100	80	20	6
	<b>A. Accounting and Finance</b>	Fundamentals of Corporate Tax Planning					
	<b>B. Banking and Insurance</b>	Fundamentals of Investment					
	<b>C. Management</b>	Consumer Affairs and Customer Care					
6.4	Business Research Methods and Project work	End Term Exam = 50 Project = 30 Viva-voce = 20	DSE-4	100	50 30 Project 20 Viva-voce		6
	<b>Total</b>			<b>400</b>			<b>24</b>
	<b>Grand Total</b>			<b>2600</b>			<b>148</b>

V.Pals

**STATE MODEL SYLLABUS FOR  
UNDERGRADUATE COURSE IN  
BOTANY**

**(Bachelor of Science Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**

Semester	Course	Course Name	Credit	Total marks
Semester-I	AECC-I		4	100
	C-1 (Theory)	Microbiology and Phycology	4	75
	C-1 (Practical)	Microbiology and Phycology	2	25
	C-2 (Theory)	Biomolecules and Cell Biology	4	75
	C-2 (Practical)	Biomolecules and Cell Biology	2	25
	GE -1A (Theory)	Biodiversity (Microbes, Algae, Fungi & Archeogoniate)	4	75
	GE -1A(Practical)	Biodiversity (Microbes, Algae, Fungi & Archeogoniate)	2	25
Semester-II	AECC-II		4	100
	C-3 (Theory)	Mycology and Phytopathology	4	75
	C-3 (Practical)	Mycology and Phytopathology	2	25
	C-4 (Theory)	Archeogoniate	4	75
	C-4 (Practical)	Archeogoniate	2	25
	GE -2A (Theory)	Plant Physiology & Metabolism	4	75
	GE -2A(Practical)	Plant Physiology & Metabolism	2	25
Semester-III	C-5 (Theory)	Anatomy of Angiosperms	4	75
	C-5 (Practical)	Anatomy of Angiosperms	2	25
	C-6 (Theory)	Economic Botany	4	75
	C-6 (Practical)	Economic Botany	2	25
	C-7 (Theory)	Genetics	4	75
	C-7 (Practical)	Genetics	2	25
	SEC-1		4	100
	GE -1B (Theory)	Plant Ecology & Taxonomy	4	75
	GE -1B (Practical)	Plant Ecology & Taxonomy	2	25
Semester-IV	C-8 (Theory)	Molecular Biology	4	75
	C-8 (Practical)	Molecular Biology	2	25
	C-9 (Theory)	Plant Ecology & Phytogeography	4	75
	C-9 (Practical)	Plant Ecology & Phytogeography	2	25

	C-10 (Theory)	Plant Systematics	4	75
	C-10 (Practical)	Plant Systematics	2	25
	SEC II		4	100
	GE-2B (Theory)	Plant Anatomy , Embryology & Biotechnology	4	75
	GE-2B(Practical)	Plant Anatomy , Embryology & Biotechnology	2	25
Semester - V	C-11 (Theory)	Reproductive Biology of Angiosperms	4	75
	C-11 (Practical)	Reproductive Biology of Angiosperms	2	25
	C-12 (Theory)	Plant Physiology	4	75
	C-12 (Practical)	Plant Physiology	2	25
	DSE - 1 (Theory)	Analytical Techniques in Plants Sciences	4	75
	DSE - 1 (Practical)	Analytical Techniques in Plants Sciences	2	25
	DSE - 2 (Theory)	Natural Resource Management	4	75
DSE - 2 (Practical)	Natural Resource Management	2	25	
Semester VI	C-13 (Theory)	Plant Metabolism	4	75
	C-13 (Practical)	Plant Metabolism	2	25
	C-14 (Theory)	Plant Biotechnology	4	75
	C-14 (Practical)	Plant Biotechnology	2	25
	DSE - 3 (Theory)	Horticulture Practices & Post Harvest Technology	4	75
	DSE-3 (Practical)	Horticulture Practices & Post Harvest Technology	2	25
	DSE - 4 Project work	Project Work	6	100
Total			<b>148</b>	<b>2600</b>

**BOTANY**

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**STATE MODEL SYLLABUS FOR UNDER  
GRADUATE  
COURSE IN CHEMISTRY  
(Bachelor of Science Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**

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### Course structure of UG Chemistry Honours

Semester	Course	Course Name	Credits	Total marks
<b>I</b>	AECC-I	AECC-I	04	100
	C-I	Inorganic Chemistry-I	04	75
	C-I Practical	Inorganic Chemistry-I Lab	02	25
	C-II	Physical Chemistry-I	04	75
	C-II Practical	Physical Chemistry-I Lab	02	25
	GE-I	GE-I	04	75
	GE-I Practical	GE-I Lab	02	25
			<b>22</b>	<b>400</b>
<b>II</b>	AECC-II	AECC-II	04	100
	C-III	Organic Chemistry-I	04	75
	C-III Practical	Organic Chemistry-I Lab	02	25
	C-IV	Physical Chemistry-II	04	75
	C-IV Practical	Physical Chemistry-II	02	25
	GE-II	GE-II	04	75
	GE-II Practical	GE-II Lab	02	25
			<b>22</b>	<b>400</b>
<b>III</b>	C-V	Inorganic Chemistry-II	04	75
	C-V Practical	Inorganic Chemistry-II Lab	02	25
	C-VI	Organic Chemistry-II	04	75
	C-VI Practical	Organic Chemistry-II Lab	02	25
	C-VII	Physical Chemistry-III	04	75
	C-VII Practical	Physical Chemistry-III Lab	02	25
	GE-III	GE-III	04	75
	GE-III Practical	GE-III Lab	02	25
	SECC-I	SECC-I	04	100
			<b>28</b>	<b>500</b>
<b>IV</b>	C-VIII	Inorganic Chemistry-III	04	75
	C-VIII Practical	Inorganic Chemistry-III Lab	02	25

Credits

	C-IX	Organic Chemistry-III	04	75
	C-IX Practical	Organic Chemistry-III Lab	02	25
	C-X	Physical Chemistry-IV	04	75
	C-X Practical	Physical Chemistry-IV Lab	02	25
	GE-IV	GE-IV (Theory)	04	75
	GE-IV Practical	GE-IV (Practical)	02	25
	SECC-II	SECC-II	04	100
			<b>28</b>	<b>500</b>
<b>V</b>	C-XI	Organic Chemistry-IV	04	75
	C-XI Practical	Organic Chemistry-IV	02	25
	C-XII	Physical Chemistry-V	04	75
	C-XII Practical	Physical Chemistry-V	02	25
	DSE-I	DSE-I	04	75
	DSE-I Practical	DSE-I Lab	02	25
	DSE-II	DSE-II	04	75
	DSE-II Practical	DSE-II Lab	02	25
			<b>24</b>	<b>400</b>
<b>VI</b>	C-XIII	Inorganic Chemistry-IV	04	75
	C-XIII Practical	Inorganic Chemistry-IV	02	25
	C-XIV	Organic Chemistry-V	04	75
	C-XIV Practical	Organic Chemistry-V	02	25
	DSE-III	DSE-III	04	75
	DSE-III Practical	DSE-III Lab	02	25
	DSE-IV	DSE-IV	04	75
	DSE-IV Practical	DSE-IV Lab	02	25
	<b>OR</b>			
	DSE-IV	Dissertation	06	100*
			<b>24</b>	<b>400</b>
		<b>TOTAL</b>	<b>148</b>	<b>2600</b>

**Discipline Specific Elective Papers: (Credit: 06 each)**

**(4 papers to be selected by students of Chemistry Honours): DSE (1-IV)**

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**STATE MODEL SYLLABUS FOR UNDER  
GRADUATE  
COURSE IN MATHEMATICS  
(Bachelor of Science Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**

*CPals*

## COURSE STRUCTURE FOR MATHEMATICS HONORS

Semester	Course	Course Name	Credits
<b>I</b>	AECC-I	AECC-I	04
	C-I	Calculus	04
	C-I	Practical	02
	C-II	Discrete Mathematics	05
	C-II	Tutorial	01
	GE-I	GE-I	05
	GE-I	Tutorial	01
			<b>22</b>
<b>II</b>	AECC-II	AECC-II	04
	C-III	Real Analysis	05
	C-III	Tutorial	01
	C-IV	Differential equations	04
	C-IV	Practical	02
	GE-II	GE-II	05
	GE-II	Tutorial	01
			<b>22</b>
<b>III</b>	C-V	Theory of Real functions	05
	C-V	Tutorial	01
	C-VI	Group Theory-I	05
	C-VI	Tutorial	01
	C-VII	Partial differential equations and system of ODEs	04
	C-VII	Practical	02
	GE-III	GE-III	05
	GE-III	Tutorial	01
	SECC-I	SECC-I	04

V.Pals

			28
IV	C-VIII	Numerical Methods and Scientific Computing	04
		Practical	02
	C-VIII		
	C-IX	Topology of Metric spaces	05
	C-IX	Tutorial	01
	C-X	Ring Theory	05
	C-X	Tutorial	01
	GE-IV	GE-IV (Theory)	05
	GE-IV	Tutorial	01
	SECC-II	SECC-II	04
			28
Semester	Course	Course Name	Credits
V	C-XI	Multivariable Calculus	05
		Tutorial	01
	C-XI		
	C-XII	Linear Algebra	05
	C-XII	Tutorial	01
	DSE-I	Linear Programming	05
	DSE-I	Tutorial	01
	DSE-II	Probability and Statistics	05
	DSE-II	Tutorial	01
			24
VI	C-XIII	Complex analysis	05
		Tutorial	01
	C-XIII		
	C-XIV	Group Theory-II	05
	C-XIV	Tutorial	01
	DSE-III	Differential Geometry	05
	DSE-III	Tutorial	01
DSE-IV	Number Theory/Project	06	
			24
		<b>TOTAL</b>	<b>148</b>

*KRals*

**STATE MODEL SYLLABUS FOR UNDER  
GRADUATE  
COURSE IN PHYSICS  
(Bachelor of Science Examination)**

**UNDER  
CHOICE BASED CREDIT SYSTEM**

*WRals*

## Course structure of UG Physics Honors

SEMESTER	COURSE OPTED	COURSE NAME	Credits
I 4 Papers  (400 Marks)	Ability Enhancement Compulsory Course-I	AECC-1	4
	Core course-I	Mathematical Physics-I	4
	Core Course-I Practical/Tutorial	Mathematical Physics-I Lab	2
	Core course-II	Mechanics	4
	Core Course-II Practical/Tutorial	Mechanics Lab	2
	Generic Elective -1	GE-1	4
	Generic Elective -1	Practical/Tutorial	2
	AECC-II		4
II 4 Papers  (400 Marks)	Ability Enhancement Compulsory Course-II	AECC-II	4
	Core course-III	Electricity and Magnetism	4
	Core Course-III Practical/Tutorial	Electricity and Magnetism Lab	2
	Core course-IV	Waves and Optics	4
	Core Course-IV Practical/Tutorial	Waves and Optics Lab	2
	Generic Elective -2	GE-2	4
	Generic Elective -2	Practical/Tutorial	2
	Mathematical Physics-II		4
III 5 Papers  (500 Marks)	Core course-V	Mathematical Physics-II Lab	2
	Core Course-V Practical/Tutorial	Thermal Physics	4
	Core course-VI	Thermal Physics Lab	2
	Core Course-VI Practical/Tutorial	Analog Systems and Applications	4
	Core course-VII	Analog Systems & Applications	2
	Core Course-VII Practical/Tutorial	Lab	4
	Skill Enhancement Compulsory Course -1	SECC-1	4
	Generic Elective -3	GE-3	4
IV 5 Papers  (500 Marks)	Generic Elective -3	Practical/Tutorial	2
	Core course-VIII	Mathematical Physics III	4
	Core Course-VIII Practical/Tutorial	Mathematical Physics-III Lab	2
	Core course-IX	Elements of Modern Physics	4
	Core Course-IX Practical/Tutorial	Elements of Modern Physics Lab	2
	Core course-X	Digital Systems and Applications	4
	Core Course-X Practical/Tutorial	Digital Systems & Applications Lab	2
	Skill Enhancement Compulsory Course -2	SECC -2	4
Generic Elective -4	GE-4	4	
V	Generic Elective -4	Practical/Tutorial	2
	Core course-XI	Quantum Mechanics &	4

V.Rals



Papers (400 Marks)		Applications	
	Core Course-XI Practical/Tutorial	Quantum Mechanics Lab	2
	Core course-XII	Solid State Physics	4
	Core Course-XII Practical/Tutorial	Solid State Physics Lab	2
	Discipline Specific Elective -1	DSE-1	5
	Discipline Specific Elective -1	Practical/Tutorial	1
	Discipline Specific Elective -2	DSE-2	5
VI 4 Papers (400 Marks)	Discipline Specific Elective- 2	Practical/Tutorial	1
	Core course-XIII	Electro-magnetic Theory	4
	Core Course-XIII Practical/Tutorial	Electro-magnetic Theory Lab	2
	Core course-XIV	Statistical Mechanics	4
	Core Course-XIV Practical/Tutorial	Statistical Mechanics Lab	2
	Discipline Specific Elective -3	DSE-3	5
	Discipline Specific Elective -3	Practical/Tutorial	1
	Discipline Specific Elective-4	DSE-4	4/5
	Discipline Specific Elective -4	Practical/Tutorial	2/1
	Alternative to Discipline Specific Elective-4	(Eligible Students may do a Project in DSE-IV)	6
	Total Credits	148	

Generic Elective Papers (GE) (Minor-Physics) for other Departments/Disciplines: (Credit: 06 each)

Depending on their requirements, Universities may choose 2 (two) GE subjects with 2 papers from each subject or only one GE subject with 4 papers from it.

Two papers GE subject will be :

1. GE-I (Mechanics & Properties of matter, Oscillation & Waves, Thermal Physics, Electricity and Magnetism & Electronics) + Lab
2. GE-II (Optics, Special Theory of Relativity, Atomic Physics, Quantum Mechanics and Nuclear Physics) + Lab

A student who chooses to read only Physics subject GE will take 4 DSC papers of the Pass Course as below

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**SYLLABUS FOR UNDERGRADUATE  
COURSE IN ZOOLOGY**

**(Bachelor of Science Examination)**

**UNDER**

**CHOICE BASED CREDIT SYSTEM**

*CPals*

Course Structure of U.G. Zoology Honours				
Semester	Course	Course Name	Credit	Total marks
Semester-I	AECC I	AECC I	4	100
	Core I (Theory)	Non-chordates I: Protista to Pseudocoelomates	4	75
	Core I (Practical)	Non-chordates I: Protista to Pseudocoelomates	2	25
	Core II (Theory)	Principles of Ecology	4	75
	Core II (Practical)	Principles of Ecology	2	25
	GE I (Theory)	GE I (Theory)	4	75
	GE I (Practical)	GE I (Practical)	2	25
Semester-II	AECC 2	AECC 2	4	100
	Core III (Theory)	Non chordates II: Coelomates	4	75
	Core III (Practical)	Non chordates II: Coelomates	2	25
	Core IV (Theory)	Cell biology	4	75
	Core IV (Practical)	Cell biology	2	25
	GE II (Theory)	GE II (Theory)	4	75
	GE II (Practical)	GE II (Practical)	2	25
Semester-III	Core V (Theory)	Diversity of Chordates	4	75
	Core V (Practical)	Diversity of Chordates	2	25
	Core VI (Theory)	Physiology: Controlling and Coordinating systems	4	75
	Core VI (Practical)	Physiology: Controlling and Coordinating systems	2	25
	Core VII (Theory)	Fundamentals of Biochemistry and microbiology	4	75
	Core VII (Practical)	Fundamentals of Biochemistry and microbiology	2	25
	SEC 1	SEC 1	4	100
	GE III (Theory)	GE III (Theory)	4	75
	GE III (Practical)	GE III (Practical)	2	25
Semester-IV	Core VIII (Theory)	Comparative anatomy of Vertebrates	4	75

*KRals*

	Core VIII (Practical)	Comparative anatomy of Vertebrates	2	25
	Core IX (Theory)	Physiology: Life Sustaining Systems	4	75
	Core IX (Practical)	Physiology: Life Sustaining Systems	2	25
	Core X (Theory)	Biochemistry of Metabolic Processes	4	75
	Core X (Practical)	Biochemistry of Metabolic Processes	2	25
	SEC 2	SEC 2	4	100
	GE IV (Theory)	GE IV (Theory)	4	75
	GE IV (Practical)	GE IV (Practical)	2	25
Semester-V	Core XI (Theory)	Molecular Biology	4	75
	Core XI (Practical)	Molecular Biology	2	25
	Core XII (Theory)	Principles of Genetics	4	75
	Core XII (Practical)	Principles of Genetics	2	25
	DSE I (Theory)	DSE I	4	75
	DSE I (Practical)	DSE I	2	25
	DSE II (Theory)	DSE II	4	75
	DSE II (Practical)	DSE II	2	25
Semester VI	Core XIII (Theory)	Developmental Biology	4	75
	Core XIII (Practical)	Developmental Biology	2	25
	Core XIV (Theory)	Evolutionary Biology	4	75
	Core XIV (Practical)	Evolutionary Biology	2	25
	DSE III (Theory)	DSE III	4	75
	DSE III (Practical)	DSE III	2	25
	DSE IV (Theory with Practical /Project)	Project/ Economic Zoology	6	100
		Total		148