



KARNATAK UNIVERSITY, DHARWAD  
ACADEMIC (S&T) SECTION  
ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ  
ವಿದ್ಯಾಮಂಡಳ (ಎಸ್&ಟಿ) ವಿಭಾಗ



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'A' Grade 2014

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No. KU/Aca(S&T)/SSL-394A/2022-23/1056

Date: 23 SEP 2022

### ಅಧಿಸೂಚನೆ

ವಿಷಯ: 2022-23ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಎಲ್ಲ ಸ್ನಾತಕ ಕೋರ್ಸುಗಳಿಗೆ 3 ಮತ್ತು 4ನೇ ಸೆಮೆಸ್ಟರ್  
NEP-2020 ಮಾದರಿಯ ಪಠ್ಯಕ್ರಮವನ್ನು ಅಳವಡಿಸಿರುವ ಕುರಿತು.

- ಉಲ್ಲೇಖ: 1. ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿಗಳು(ವಿಶ್ವವಿದ್ಯಾಲಯ 1) ಉನ್ನತ ಶಿಕ್ಷಣ ಇಲಾಖೆ ಇವರ  
ಆದೇಶ ಸಂಖ್ಯೆ: ಇಡಿ 260 ಯುಎನ್ಇ 2019(ಭಾಗ-1), ದಿ:7.8.2021.  
2. ವಿಜ್ಞಾನ & ತಂತ್ರಜ್ಞಾನ ನಿಖಾಯ ಸಭೆಯ ಠರಾವುಗಳ ದಿನಾಂಕ: 06.09.2022  
3. ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ನಿರ್ಣಯ ಸಂ. 01, ದಿನಾಂಕ: 17.09.2022  
4. ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಆದೇಶ ದಿನಾಂಕ: 22-09-2022

ಮೇಲ್ಕಾಣಿಸಿದ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಗಳನ್ವಯ ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಆದೇಶದ ಮೇರೆಗೆ, 2022-23ನೇ  
ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಅನ್ವಯವಾಗುವಂತೆ, ವಿಜ್ಞಾನ & ತಂತ್ರಜ್ಞಾನ ನಿಖಾಯದ ಎಲ್ಲ ಸ್ನಾತಕ ಕೋರ್ಸುಗಳ ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ  
(NEP)-2020 ರಂತೆ 3 ಮತ್ತು 4ನೇ ಸೆಮೆಸ್ಟರ್‌ಗಳಿಗಾಗಿ ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ಅನುಮೋದಿತ  
ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಪ್ರಕಟಪಡಿಸಿದ್ದು, ಸದರ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಕ.ವಿ.ವಿ. [www.kud.ac.in](http://www.kud.ac.in) ಅಂತರ್ಜಾಲದಿಂದ ಡೌನ್‌ಲೋಡ  
ಮಾಡಿಕೊಳ್ಳಲು ಸೂಚಿಸುತ್ತಾ, ವಿದ್ಯಾರ್ಥಿಗಳು ಹಾಗೂ ಸಂಬಂಧಿಸಿದ ಎಲ್ಲ ಬೋಧಕರ ಗಮನಕ್ಕೆ ತಂದು ಅದರಂತೆ  
ಕಾರ್ಯಪ್ರವೃತ್ತಿಗಳು ಕವಿವಿ ಅಧೀನದ / ಸಂಲಗ್ನ ಮಹಾವಿದ್ಯಾಲಯಗಳ ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ ಸೂಚಿಸಲಾಗಿದೆ.

ಅಡಕ: ಮೇಲಿನಂತೆ

*Kul - 23/9/22*  
ಕುಲಸಚಿವರು.

ಗೆ,

ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಎಲ್ಲ ಅಧೀನ ಹಾಗೂ ಸಂಲಗ್ನ ಮಹಾವಿದ್ಯಾಲಯಗಳ  
ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ. (ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲ ಹಾಗೂ ಮಿಂಚಂಚೆ ಮೂಲಕ ಬಿತ್ತರಿಸಲಾಗುವುದು)

ಪ್ರತಿ:

1. ಕುಲಪತಿಗಳ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
2. ಕುಲಸಚಿವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
3. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ) ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
4. ಅಧೀಕ್ಷಕರು, ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆ / ಗೌಪ್ಯ / ಜಿ.ಎ.ಡಿ. / ವಿದ್ಯಾಂಡಳ (ಪಿ.ಜಿ.ಪಿ.ಎಚ್.ಡಿ) ವಿಭಾಗ, ಸಂಬಂಧಿಸಿದ  
ಕೋರ್ಸುಗಳ ವಿಭಾಗಗಳು ಪರೀಕ್ಷಾ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
5. ನಿರ್ದೇಶಕರು, ಕಾಲೇಜು ಅಭಿವೃದ್ಧಿ / ವಿದ್ಯಾರ್ಥಿ ಕಲ್ಯಾಣ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.



# **KARNATAK UNIVERSITY, DHARWAD**

## **04 - Year B.Sc. (Hons.) Program**

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### **SYLLABUS**

## **Subject: Anthropology**

[Effective from 2022-23]

### **SEMESTER 03**

**DSCC-5: Human Biology (Course Code:033ANT011)**

**DSCC-6: Practical in Human Biology And Dermatoglyphics (Course Code:033ANT012)**

**OEC-3: Understanding Culture (Course Code: 003ANT051)**

### **SEMESTER 04**

**DSCC-7: Human Genetics (Course Code:034ANT011)**

**DSCC-8 Practical in Human Genetics And Genetic Counseling (Course Code:034ANT012)**

**OEC-4: Indian Anthropology (Course Code: 004ANT051)**

### **UNDER**

## **NATIONAL EDUCATION POLICY - 2020**

## CURRICULUM

**Name of the Degree Program: BSc 03 and 04 Semester**

**Discipline Core: Anthropology**

**Starting year of implementation: 2022-23**

### **Program Outcomes:**

1. Analyze humans as a part of Society and focus on a broad, comparative and holistic approach to study human culture, history, language, and biology to understand human societies.
2. Develop an insight towards human beings' evolution, biology and variation.
3. Understand the development of anthropology and its growth as a discipline.
4. Skillfully tackle the research issues in anthropological orientation and devise solutions.
5. Equip them with the ability whereby they would be able to actualize the theoretical knowledge to the problems of everyday life and help devise solutions.
6. Acknowledge various applied fields of anthropology.
7. Communicate anthropological knowledge effectively through written, oral or through data collection and presentation in varying formats for diverse audiences.
8. Become effective anthropologists, administrators and researchers.

### **Assessment: Weightage for assessments (in percentage)**

<b>Type of Course</b>	<b>Formative Assessment/IA</b>	<b>Summative Assessment</b>
<b>Theory</b>	<b>40 (40%)</b>	<b>60 (60%)</b>
<b>Practical</b>	<b>25 (50%)</b>	<b>25 (50%)</b>
<b>Projects</b>	--	--
<b>Experiential Learning (Internships etc.)</b>	--	--

**NEP 2020**  
**B.Sc. ANTHROPOLOGY**  
**II-A: Syllabus -List of Papers**

<b>SEM</b>	<b>Paper</b>	<b>Course Code</b>	<b>Title of paper</b>	<b>Credits</b>
III	DSCC-5	033ANT011	Human Biology	(4)
	DSCC-6	033ANT012	Practical in Human Biology And Dermatoglyphics	(2)
	OEC -3	003ANT051	Understanding Culture	(3)
IV	DSCC-7	034ANT011	Human Genetics	(4)
	DSCC-8	034ANT012	Practical in Human Genetics And Genetic Counseling	(2)
	OEC -4	004ANT051	Indian Anthropology	(3)

## Curriculum Structure of the Undergraduate Degree Program

### B.Sc. III & IV Semester

Name of the Degree Program: B.Sc.

Discipline/Subject: Anthropology

Starting year of implementation: 2022-23

#### Program Articulation Matrix:

This matrix lists only the core courses. Core courses are essential to earning a degree in that discipline/subject. They include courses such as theory, laboratory, projects, internships, etc. Elective courses may be listed separately.

Semester	Title /Name of the course	Program outcomes that the course addresses (not more than 3 per course)	Prerequisite course (s)	Pedagogy	Assessment Marks
III	Human Biology	1) The students will be able to describe the basic concepts of human biology and identify the key biological processes. 2) The students will be able to interpret the concept of variation in humans through study of human growth and development and human race. 3) The students will be able to evaluate the importance of nutrition in individual and public health.	PUC /10+2 Science	- Lecture - Assignment - Individual and Group Discussion - Power point Presentation -Seminar	<b>1. FA = 40</b> 1st Test = 10 2nd Test = 10 Assignment = 10 Seminar= 10 <b>Total = 40</b>  <b>2. Sem. End Exam (SA) = 60 marks</b>  Total 40+60 = 100

	Practical in Human Biology and Dermatoglyphics	<p>1) The students will be able to perform experiments on some basic human biology concepts.</p> <p>2) The students will get an insight on dermatoglyphics and its application.</p>		<ul style="list-style-type: none"> <li>- Conducting experiments</li> <li>- Identification Determination and Classification</li> <li>- individual and groups discussions</li> <li>- arriving at conclusion</li> <li>- Lecture</li> <li>- Demonstration</li> </ul>	<p><b>1. FA = 25</b></p> <p><b>2. SA Exam = 25</b></p> <p>a. Journal = 05</p> <p>b. Conducting experiment (Identification and Classification) &amp; Results and discussion = 15</p> <p>c. Viva = 05</p> <p><b>Total 50 Marks</b></p>
IV	Human Genetics	<p>1) The students will be able to understand basics of Human genetics.</p> <p>2) The students will be familiarized with fundamentals laws and concepts of Human genetics</p> <p>3) The students will be able to discover the applications of Human genetics in various fields.</p>		<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Assignment</li> <li>- Individual and Group Discussion</li> <li>- Power point presentation</li> </ul>	<p><b>1. FA = 40</b></p> <p>1st Test = 10</p> <p>2nd Test = 10</p> <p>Assignment = 10</p> <p>Seminar = 10</p> <p><b>Total = 40</b></p> <p><b>2. Sem. End Exam (SA) = 60 marks</b></p> <p>Total 40+60 = 100</p>
	Practical in Human Genetics and Genetic Counseling	<p>1) The students will be able to perform experiments on some basic human genetics concepts.</p> <p>2) The students will get an insight on genetic counseling and its application</p>		<ul style="list-style-type: none"> <li>Conducting experiments</li> <li>Identification Determination and Classification</li> <li>- individual and groups discussions</li> <li>- arriving at conclusion</li> <li>- Lecture</li> <li>- Demonstration</li> </ul>	<p><b>1. FA = 25</b></p> <p><b>2. SA Exam = 25</b></p> <p>a. Journal = 05</p> <p>b. Conducting experiment (Identification and Classification) &amp; Results and discussion = 15</p> <p>c. Viva = 05</p> <p><b>Total 50 Marks</b></p>

# BSc in Anthropology Semester 3 Syllabus

**BSc in Anthropology  
Semester 03**

**Discipline Specific Core Course (DSCC-5 and DSCC-6)**

**The course Anthropology in III semester has two papers (Theory Paper for 04 credits & Practical Paper for 2 credits) for 06 credits: Both the papers are compulsory. Details of the courses are as under.**

**Theory**

**Course Code: 033ANT011**

<b>Course Title: Human Biology (DSCC-5)</b>	
Total Contact Hours: 56 (04 hours per week)	Course Credits: 04
Formative Assessment Marks: 40	Summative Assessment Marks: 60
	Duration of ESA/Exam: 2 hrs.

**Course Outcomes**

**CO1:** The students will be able to describe the basic concepts of human biology and identify the key biological processes.

**CO2:** The students will be able to interpret the concept of variation in humans through study of human growth and development and human race.

**CO3:** The students will be able to evaluate the importance of nutrition in individual and public health.

**Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-8)**

<b>Course Outcomes (COs) / Program Outcomes (POs)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
1. The students will be able to describe the basic concepts of human biology and identify the key biological processes.	X	X		X		X		X
2. The students will be able to interpret the concept of variation in humans through study of human growth and development and human race.	X	X		X	X	X		X
3. The students will be able to evaluate the nutritional importance in individual and public health.	X			X	X	X		X

Course Articulation Matrix relates course outcomes, of course with the corresponding program outcomes whose attainment is attempted in this course. Mark 'X' in the intersection cell if a course outcome addresses a particular program outcome.



### Content of Theory (DSCC-5)

Units	Hours Allotted
<b>Unit 1 Cell and its Organelles</b>	<b>14 hours</b>
<b>Chapter 1:</b> Study of Cell, its organelles and their functions, <b>Chapter 2:</b> Cell Division: Mitosis and Meiosis and their significance <b>Chapter 3:</b> The concept of Genes and Chromosome, Serology: ABO and Rh Blood Group System, Antigens and Antibodies.	
<b>Unit 2 Human Growth</b>	<b>14 hours</b>
<b>Chapter 4:</b> Human Growth: Stages of Human Growth: Prenatal, Infancy, Childhood, Adolescence, Maturity and Senescence. <b>Chapter 5:</b> Factors Affecting Human Growth: Genetic, Environmental, Hormonal, Nutritional and Socio-economic factors. <b>Chapter 6:</b> Methods of Studying human growth and development: Longitudinal, Cross-sectional and Growth Curves	
<b>Unit 3 Human Race</b>	<b>14 hours</b>
<b>Chapter 7:</b> Human Variation: Introduction to Races, Criteria of racial Classification: Skin, Hair, Eye Color and Stature. <b>Chapter 8:</b> Factors responsible for forming Races and Major Races of the world. <b>Chapter 9:</b> Racial Classification of Indian Population: Risley, Guha and Sarkar.	
<b>Unit 4 Nutritional Anthropology and Human Disease</b>	<b>14 hours</b>
<b>Chapter 10:</b> Nutrition: Assessment Components, Dietary needs: Protein, Carbohydrates, Fats, Vitamins and Minerals. <b>Chapter 11:</b> Nutritional deficiency disorders, Malnutrition and Obesity <b>Chapter 12:</b> Human Diseases and Defense Mechanism: Communicable and Non-communicable diseases. Deficiency Diseases, Allergies, Cancer and Human Defense Mechanism.	

**Pedagogy:** Pedagogy includes lectures, active learning, course projects, problem or project-based learning, self-study like seminars, assignments, demonstration, discussion methods.

<b>Formative Assessment</b>	
Assessment Occasion/type	Weightage in Marks (40)
1st IA Test	10
2nd IA Test	10
Assignment	10
Seminar	10
<b>Total</b>	<b>40</b>

**Practical (DSCC-6)**

**Course Code: 033ANT012**

<b>Course Title: Practical in Human Biology and Dermatoglyphics (DSCC-6)</b>	
Total Contact Hours: 52 (04 Hours per week)	Course Credits: 02
Formative Assessment Marks: 25	Summative Assessment Marks: 25
Syllabus Authors: BOS Members	Duration of ESA/Exam: 3 hrs.

**Course Outcomes:**

**CO1:** The students will be able perform experiments on some basic human biology concepts.

**CO2:** The students will get an insight on dermatoglyphics and its application.

**List of the Experiments for 52 hrs / Semesters**

- 1) Determination of ABO and Rh blood group system,
- 2) Measuring Body Mass Index (BMI): Assessing Nutritional Status in Adults
- 3) Introduction to Dermatoglyphics, Scope and Applications of Dermatoglyphics.
- 4) Finger and Palmer Prints of the Subjects, Ridge Counting and Palmer Topology
- 5) Tracing the Main Line Formula

**General instructions:**

**Practical Batches:** 10 students per batch

**For Exam:** 10 students per batch

**Pedagogy:** Pedagogy includes lecture, active learning, self-demonstration, discussion, determination, classification and observation methods

**Scheme of Practical Examination (distribution of marks):** 25 marks for Semester-end examination.

Serial	Scheme	Marks
1	Conducting experiment (Classification and Identification) and Results and discussion	15 Marks
2	Viva	05 Marks
3	Journal	05 Marks
	<b>Total</b>	25 marks

### **Suggested Readings**

- 1) Das, B. M. 1959. Fingerprints of Hajong. *Man in India*, 39(1): 20-27
- 2) Das, B.M. 1997, *Outlines of Physical Anthropology*, Allahabad: Kitab Mahal
- 3) Ember and Ember 1977. *Anthropology*, Englewood cliffs, Nj: Prentice hall.
- 4) Galton, F. (1892) *Fingerprints*. Macmillan, London.
- 5) Indera P. Singh and M.K.Bhasin, 1989, *Anthropometry – a laboratory manual for biological anthropology*
- 6) Nath P. 2018. *Physical Anthropology*, Higher Publishers, New Delhi.
- 7) Penrose, L.S. 1969. Dermatoglyphic, *Scientific American*, Vol.221.No.6 pp.72-87.
- 8) Rami Reddy R. 1991. *Physical Anthropology: Evolution and Genetics*, Tirupati: V. Indira Publishers.
- 9) Rastogi & Shukla 2017, *Laboratory Manual of Physical Anthropology*
- 10) Sarkar, R.M. *Fundamentals of Physical Anthropology*
- 11) Shukla and SudhaRastogi, 1999. *Physical Anthropology and Human Genetics*. Konark Press, Delhi.
- 12) Srivastava, R.P. 1963. A study of Finger Prints of the DanguriaTharu of Uttar Pradesh (India). *Am. J. Phsy. Anthropol.*, 21 :69-7
- 13) Stein. P & Rowe.B 1974, *Physical Anthropology*, McGraw-Hill Humanities Social

**B.Sc. in Anthropology**

**Semester 03**

**OPEN ELECTIVE COURSE (OEC-3)**

**Course Code: 003ANT051**

<b>Course Title: Understanding Culture (OEC-3)</b>	
Total Contact Hours: 42 (03 hours per week)	Course Credits: 03
Formative Assessment Marks: 40	Summative Assessment Marks: 60
Syllabus Authors: BOS Members	Duration of ESA/Exam: 2 hrs.

**Course Outcomes**

**CO1:** Define culture and understand the outlook of culture in anthropological perspective

**CO2:** Infer the human history through the lens of archaeological anthropology and its concepts.

**CO3:** Sketch the nature and scope of language in the development of human societies.

**Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-8)**

<b>Course Outcomes (COs) / Program Outcomes (POs)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
1. Define culture and understand the outlook of culture in anthropological perspective	X	X		X	X		X	X
2. Infer the human history through the lens of archaeological anthropology and its concepts.	X			X		X		X
3. Sketch the nature and scope of language in the development of human societies.	X			X		X		X

Course Articulation Matrix relates course outcomes, of course with the corresponding program outcomes whose attainment is attempted in this course. Mark 'X' in the intersection cell if a course outcome addresses a particular program outcome

### Content of OEC-3

Units	Hours Allotted
<b>Unit 1 Anthropological Theories on Culture</b>	<b>14 hours</b>
<b>Chapter 1:</b> Concept of Culture, Ethnocentrism and Cultural Relativism <b>Chapter 2:</b> Evolutionism, Diffusionism and Functionalism. <b>Chapter 3:</b> Structural-Functionalism, Structuralism and Cultural and Personality School	
<b>Unit 2 Archaeological Anthropology</b>	<b>14 hours</b>
<b>Chapter 4:</b> Meaning, Scope and Subfields of Archaeological Anthropology <b>Chapter 5:</b> Concept of Pre-history, Proto-history and Civilization, Basic characteristics of Paleolithic, Mesolithic and Neolithic Ages <b>Chapter 6:</b> Dating methods: Relative and Absolute methods	
<b>Unit 3 Linguistic Anthropology</b>	<b>14 hours</b>
<b>Chapter 7:</b> Meaning, Scope and Subfields of Linguistic Anthropology <b>Chapter 8:</b> Theories regarding origin of language, Relationship Between Culture and Language <b>Chapter 9:</b> Verbal and Non-verbal communication	

#### Suggested Reading:

- 1) Bhattacharya D.K. 1972 Prehistoric Archaeology Delhi :Hindustan Pubin., Corporation.,
- 2) Bhattacharya D.K. 1978. Emergence of Culture in Europe, Delhi, B.R. Publication.
- 3) Bhattacharya D.K. 1979. Old Stone Age Tools and Techniques. Calcutta: K.P. Bagchi Company.
- 4) Childe G.V. 1956 Man Makes Himself. London: Watts
- 5) Ember and Ember 1977. Anthropology, Englewood Cliffs, NJ: Prentice hall.
- 6) Hasnain Nadeem, General Anthropology. Jawahar Publishers, New Delhi
- 7) Jourdan & Tuite (2006), Language, Culture and Society, Cambridge University Press, New York
- 8) Mankan Jha 1994. An Introduction to Anthropological Thought, Vikas Publishing House Pvt
- 9) Rami Reddy R. 1987 Elements of Prehistory, New Delhi: Mittal Publishers
- 10) Singh & Prasad (2012), Linguistic Anthropology, Crescent Publishing Corporation, New Delhi
- 11) Upadhaya V S. and Gaya Pandey 1978. History of Anthropological Thought, New Delhi: Concept Publishing Co.

# BSc in Anthropology Semester 4 Syllabus

**B.Sc. in Anthropology  
Semester 04**

**Discipline Specific Core Course (DSCC-7 and DSCC-8)**

**The course Anthropology in IV semester has two papers (Theory Paper for 04 credits & Practical Paper for 2 credits) for 06 credits: Both the papers are compulsory. Details of the courses are as under.**

**Theory**

**Course Code: 034ANT011**

<b>Course Title: Human Genetics (DSCC-7)</b>	
Total Contact Hours: 56 (04 hours per week)	Course Credits: 04
Formative Assessment Marks: 40	Summative Assessment Marks: 60
	Duration of ESA/Exam: 2 hrs.

**Course Outcome:**

**CO1:** The students will be able to understand basics of Human genetics.

**CO2:** The students will be familiarized with fundamentals laws and concepts of Human genetics

**CO3:** The students will be able to discover the applications of Human genetics in various fields.

**Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-8)**

<b>Course Outcomes (COs) / Program Outcomes (POs)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
1. The students will be able to understand basics of Human genetics.	X	X		X	X			X
2. The students will be familiarized with fundamentals laws and concepts of Human Genetics		X	X	X	X			X
3. The students will be able to discover the applications of human genetics in various fields		X		X	X	X		X

Course Articulation Matrix relates course outcomes, of course with the corresponding program outcomes whose attainment is attempted in this course. Mark 'X' in the intersection cell if a course outcome addresses a particular program outcome

### Content of Theory (DSCC-7)

Units	Hours Allotted
<b>Unit 1 Introduction to Human Genetics</b>	<b>14 hours</b>
<b>Chapter 1:</b> Nature and Scope of Human Genetics: Historical development of Human Genetics and its branches <b>Chapter 2:</b> Anthropological perspective on Human Genetics <b>Chapter 3:</b> Relation of Human Genetics with other disciplines	
<b>Unit 2 Mendelian Genetics</b>	<b>14 hours</b>
<b>Chapter 4:</b> Mendel's laws of Heredity <b>Chapter 5:</b> Application of Mendelian laws in Humans <b>Chapter 6:</b> Heredity and Mutation, Heredity and Environment	
<b>Unit 3 Inheritance Patterns in Humans</b>	<b>14 hours</b>
<b>Chapter 7:</b> Modes of Inheritance: Autosomal and Sex-linked <b>Chapter 8:</b> Methods of Studying Heredity: Pedigree analysis, Twin Studies, Cytological and DNA Method <b>Chapter 9:</b> Chromosomal Abnormalities: Numerical and Structural abnormalities	
<b>Unit 4 Applied Human Genetics</b>	<b>14 hours</b>
<b>Chapter 10:</b> Application of Human Genetics and its Scope <b>Chapter 11:</b> Genetic Engineering: Gene Therapy, Genetic Screening of Hereditary Diseases, DNA Finger Printing/Typing and Paternity Diagnosis, Genetic Counseling <b>Chapter 12:</b> New Areas in Human Genetics: Stem Cell Research, Cloning and Eugenics	

**Pedagogy:** Pedagogy includes lectures, active learning, course projects, problem or project-based learning, self-study like seminars, assignments, demonstration, discussion methods.

<b>Formative Assessment</b>	
Assessment Occasion/type	Weight age in Marks (40)
1st IA Test	10
2nd IA Test	10
Assignment	10
Seminar	10
<b>Total</b>	<b>40</b>



### **Practical (DSCC-8)**

**Course Code: 034ANT012**

<b>Course Title: Practical in Human Genetics and Genetics Counseling (DSCC-8)</b>	
Total Contact Hours: 52 (04 Hours per week)	Course Credits: 02
Formative Assessment Marks: 25	Summative Assessment Marks: 25
Syllabus Authors: BOS Members	Duration of ESA/Exam: 3 hrs.

#### **Course Outcomes:**

**CO1:** The students will be able perform experiments on some basic human genetics concepts.

**CO2:** The students will get an insight on genetic counseling and its application

#### **List of the Experiments for 52 hrs / Semesters**

- 1) Diagnosis of color blindness by using Ishihara Plate Test chart
- 2) Determination of Taste Sensitivity by PTC test.
- 3) Measuring of Blood Sugar
- 4) Measuring Blood Pressure.
- 5) Genetic Counseling: Practical and Ethical Aspects.

#### **General Instructions**

**Practical Batches:** 10 students per batch.

**For Exam:** 10 students per batch.

**Pedagogy:** Pedagogy includes lecture, active learning, self-demonstration, discussion, determination, classification and observational methods

**Scheme of Practical Examination (distribution of marks):** 25 marks for Semester-end examination.

<b>Serial</b>	<b>Scheme</b>	<b>Marks</b>
1	Conducting experiment (Classification and Identification) and Results and discussion	15 Marks
2	Viva	05 Marks
3	Journal	05 Marks
	<b>Total</b>	25 marks

**Suggested Reading:**

- 1) Buettner Janusch, J. 1969. Origin of Man. New Delhi; Wiley Es.
- 2) Gangane.S.D, 2021, Human Genetics, Elsevier
- 3) Gustavo Maroni 2001. Molecular and Genetic Analysis of Human Triats, Viley-Blackwell.
- 4) Harrison, G. A. et al.,(Ed) 1990. Human Biology, Oxford Press.
- 5) Levine, R. P. Genetics, New York, Holt.
- 6) Leviton Max and Montagu Ashley, 1977, Textbook of Human Genetics.
- 7) Mange, E.J. and Mange, A.P. 1999. Basic Human Genetics, 2ndEd. Sinauer Assoc. Inc. Mass.
- 8) Rami Reddy R. 1991. Physical Anthropology: Evolution and Genetics, Tirupati: V. Indira Publishers.
- 9) Singh.B.D.2009, Fundamentals of Genetics,
- 10) Snustad, D.P., Simmons, M.J. 2003. Principles of Genetics 3rded. John Wiley & Sons Inc. N.Y.
- 11) Stun Curt, 1960. Principles of Human Genetics, Sanfrancisco: Freeman Publication.

**BSc in Anthropology, Semester 04**  
**OPEN ELECTIVE COURSE (OEC-IV)**

**Course Code: 004ANT051**

<b>Course Title: Indian Anthropology (OEC-4)</b>	
Total Contact Hours: 42 (03 hours per week)	Course Credits: 03
Formative Assessment Marks: 40	Summative Assessment Marks: 60
	Duration of ESA/Exam: 2 hrs.

**Course Outcomes**

- 1) The student will understand the basic pillars of Indian Society in Anthropological perspective.
- 2) The student will decipher the concepts associated to Indian Society, historically and presently.
- 3) The student will know the growth and history of Anthropology in Indian context.

**Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-8)**

<b>Course Outcomes (COs) / Program Outcomes (POs)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
1. The student will understand the basic pillars of Indian Society in Anthropological perspective	X			X				X
2. The student will decipher the concepts associated to Indian Society, historically and presently.			X	X	X	X		X
3. The student will know the growth and history of Anthropology in Indian context.			X	X		X		X

Course Articulation Matrix relates course outcomes, of course with the corresponding program outcomes whose attainment is attempted in this course. Mark 'X' in the intersection cell if a course outcome addresses a particular program outcome

### Content of Theory OEC-4

	Hours Allotted
<b>Unit 1 Indian Society</b>	<b>14 hours</b>
<b>Chapter 1:</b> The Indian Social System – Anthropological outlook <b>Chapter 2:</b> Caste System, Dominant Caste, Sanskritisation and Westernization <b>Chapter 3:</b> Nature-Man-Spirit Complex, Great and Little Tradition and Sacred Complex	
<b>Unit 2 Aspects of Indian Society</b>	<b>14 hours</b>
<b>Chapter 4:</b> Indus Valley Civilization <b>Chapter 5:</b> Racial, Geographical and Linguistic Classification of Indian Society <b>Chapter 6:</b> The concept of Scheduled Caste, Scheduled Tribe, Minorities, and Other Backward Classes (OBC) and Constitutional Safeguards to them	
<b>Unit 3 Aspects of Indian Anthropology</b>	<b>14 hours</b>
<b>Chapter 7:</b> Growth of Indian Anthropology <b>Chapter 8:</b> Contribution of Indian Anthropologists – S C Roy, D N Majumdar, L P Vidyarthi and K Ishwaran <b>Chapter 9:</b> Applied Anthropology in India	

#### Suggested Reading:

- 1) Bernard CS. 2000. India: The Social Anthropology of Civilization: Oxford University Press, Delhi
- 2) Majumdar DN. 1901. Races and Culture of India. Asia Publishing House, Bombay
- 3) Nadeem Hasnain 2011, Indian Society and Culture: Continuity and Change Jawahar Publishers and Distributors, New Delhi
- 4) Nadeem Hasnain 2021. Indian Anthropology,: Palaka Prakashan New Delhi
- 5) Vidyarthi.L.P (2014) Applied Anthropology in India, Kitab Mahal, New Delhi

**Summative Assessment**

**Faculty of Social Science**

**04 - Year UG Anthropology Honors programme:2021-22**

**GENERAL PATTERN OF THEORY QUESTION PAPER FOR DSCC/ OEC**

**Part-A**

1. Question number 01-06 carries 02 marks each, Answer any 05 questions: 10 marks

**Part-B**

2. Question number 07-11 carries 05 marks each, Answer any 04 questions: 20 marks

**Part-C**

3. Question number 12-15 carries 10 Marks each, Answer any 03 questions: 30 marks

(Minimum 1 question from each unit and 10 marks question may have sub questions for 7+3 or 6+4 or 5+5 if necessary)

**Total: 60 Marks**

**Note: Proportionate weight age shall be given to each unit based on number of hours prescribed.**

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