

# BHADRAK AUTONOMOUS COLLEGE

BHADRAK- 756100, ODISHA



## *COURSES OF STUDIES*

*FOR*

*THREE- YEARS DEGREE COURSE*

*IN*

# ARTS

First Semester Examination -	2017
Second Semester Examination-	2018
Third Semester Examination-	2018
Fourth Semester Examination -	2019
Fifth Semester Examination -	2019
Six Semester Examination-	2020

## SYLLABUS STRUCTURE FOR B.A. ( CORE COURSE)

### FIRST SEMESTER

SUBJECT	PAPER	FULL MARK	CREDIT	MID SEMESTER	END SEMESTER
AECC (ENG/OD/HN/UR)		50	2	10	40
CORE COURSE	C.C.-I	100	6	20	80
CORE COURSE	C.C.-II	100	6	20	80
GENERIC ELECTIVE	G.E.-I/3*	100	6	20	80
TOTAL		350	20	70	280

### SECOND SEMESTER

SUBJECT	PAPER	FULL MARK	CREDIT	MID SEMESTER	END SEMESTER
ENVIRONMENTAL SCIENCE		50	2	10	40
CORE COURSE	C.C.-III	100	6	20	80
CORE COURSE	C.C.-IV	100	6	20	80
GENERIC ELECTIVE	G.E.-2/4**	100	6	20	80
TOTAL		350	20	70	280

### THIRD SEMESTER

SUBJECT	PAPER	FULL MARK	CREDIT	MID SEMESTER	END SEMESTER
COMMUNICATIVE ENGLISH	1	50	2	10	40
CORE COURSE	C.C.-V	100	6	20	80
CORE COURSE	C.C.-VI	100	6	20	80
CORE COURSE	C.C.-VII	100	6	20	80
GENERIC ELECTIVE	G.E.-1/3*	100	6	20	80
TOTAL		450	26	90	360

### FOURTH SEMESTER

SUBJECT	PAPER	FULL MARK	CREDIT	MID SEMESTER	END SEMESTER
SEC INDIAN CULTURE	2	50	2	10	40
CORE COURSE	C.C.-VIII	100	6	20	80
CORE COURSE	C.C.-IX	100	6	20	80
CORE COURSE	C.C.-X	100	6	20	80

GENERIC ELECTIVE	G.E.-IV	100	6	20	80
TOTAL		450	26	90	360

#### FIFTH SEMESTER

SUBJECT	PAPER	FULL MARK	CREDIT	MID SEMESTER	END SEMESTER
CORE COURSE	C.C.-XI	100	6	20	80
CORE COURSE	C.C.-XII	100	6	20	80
D.S.E.	P-I	100	6	20	80
D.S.E.	P-II	100	6	20	80
TOTAL		400	24	80	320

#### SIXTH SEMESTER

SUBJECT	PAPER	FULL MARK	CREDIT	MID SEMESTER	END SEMESTER
CORE COURSE	C.C.-XIII	100	6	20	80
CORE COURSE	C.C.-XIV	100	6	20	80
D.S.E.	P-III	100	6	20	80
D.S.E.	P-IV PROJECT	100	6	20	80
TOTAL		400	24	80	320

### ENVIRONMENT STUDIES

#### SEMESTER-1

Ability Enhancement Compulsory Course (AECC)

(2 CREDIT)

F.M-50(40+10)

Question must be set from all units with alternatives and each question will be both long and short answer type

#### UNIT-1 Introduction to environmental studies and ecosystem

- Scope and importance of environmental studies.
- What is ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem; Food webs and ecological succession study of the ecosystem (forest ecosystem, pond ecosystem)

#### UNIT-2 Natural Resources: Renewable and Non-Renewable Resources.

- Land resources and land use change; Level degradation and soil erosion.

- Reforestation: causes and impacts due to mining, dam building on Environment. Forests, biodiversity and tribal population.
- Water use and over –exploitation of surface and ground water, draughts.
- Energy resources: Renewable and non-renewable energy sources, use of alternate energy source.

**UNIT-3      Biodiversity conservation and Environmental issues.**

- Level of biology diversity: genetic, species and ecosystem diversity; Bio geographic zones of India; Biodiversity patterns and global biodiversity hot spots.
- India as a Mega-biodiversity nation; Endangered and endemic species of India.
- Threats to biodiversity. Habitat-loss, poaching of wildlife, Man wild life conflicts; conservation of biodiversity: In situ and Ex-situ conservation of biodiversity.
- Human population growth: Impact on environment, disaster management(Food , Cyclone, Earthquake) Environmental Movements (Chipko, Silent-valley, Bis-nois of Rajasthan)

**UNIT-4      Environmental pollution and policies.**

- Environmental pollution: Types, causes, effects and controls; Air, water, soil and noise pollution.
- Solid waste management control measures of urban and industrial waste.
- Climate change, global warming, ozone layer depletion acid rain and impacts on human communities and agriculture.  
Environmental laws: Environment pollution Act; Air (prevention and control of pollution) Act; Forest conservation Act.

**Suggested Readings:-**

1. Sharma, P.D Ecology & Environmental Biology
2. Dash, M.C. Fundamental of Ecology
3. Rana, S.V.S Environmental Studies

## Semester-II

### Paper-2. 1: Ability Enhancement Compulsory Course (AECC)

(In English/Odia /Hindi/Urdu)

Duration -2 hour, Mid sem-10, End Sem-49, F.M-50

Question must be set from all units with alternatives and each question will be both long and short answer type

English

This course is aimed at enhancing the English Language proficiency of undergraduate students in Human and preparing them for the academic, social and professional expectations during and after the course. The course will help develop academic and social English competencies in speaking, listening, reading, writing, grammar and usage.

The course will have 2 credits (50 marks), Mid-Sem (Internal Assessment)-10 Marks at End Sem -40 Marks. These shall be 3 units.

Unit-I : Reading skills, summary, paraphrasing. Analysis, interpretation, knowledge, literary texts. Candidates shall have to answer 3 questions carrying 5 marks each from the prescribed text.

Text prescribed: Forms of English Prose (OUP)

- Pieces to be studied:
1. The Lament – Anton Chekov
  2. The Umbrella- G.D Maupassant
  3. The barber's Trade Union –M.R. Anand
  4. The Axe – R.K. Narayan

Unit2: Writing Skill- Report, making Notes, Explain an idea / paragraph/CV/Resume information Transfer and Business Communication. The candidates shall have to answer questions carrying 7.5 marks each.

Unit-3 Grammar and usage: Sentence ( Simple, Complex, Compound) , Clause ( Noun Adjective, Adverb ), Phrasal verb , models, Preposition, Subject- Verb Agreement , Common Error, Candidates shall have to answer 10 objective questions carrying 1 mark each.

**ODIA**

**Ability Enhancement Compulsory Course (AECC)**

**Duration -2 Hours, Mid Sem -10, End semester-40, F.M-50**

**ଓଡ଼ିଆ ଭାଷାରେ ଓଡ଼ିଆ ଭାଷା - ଓଡ଼ିଆ (AECC)**

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**Hindi**

**Ability Enhancement Compulsory Course (AECC)**

**Duration-2 Hours, Mid Sem-10, End Sem-40, F.M-50**

**Unit-1**

**Efnvoer Yee<ee mebcHe£es<eCe**

**(1) Yee<ee keÀes HeefjYee<ee, He£ke=Àefle Syeb efJeefJeOe ©He ( ceewefKekeÀ, efueefKele, je<i£Yee<ee, jepeYee<ee )**

**Unit-2**

(2) Efnvoer keÀer JeCe& y³eJemLee-mJej Syeb y³ebpeve-  
He£keÀejYeso mJej- (n´mye, oerle&, Deewj meb³eg  
Yîebpeve- (mye<e&, DeblemLe, G<ce, DeuHeHe^eCe, lees<e  
leLee Delees<e)

### Unit-3

Efnvoer yîekeÀjCe Deewj mebcHe^s<eCe

1. He³ee&îeJee®eer Meyo, efyeeesce, DeveskeÀ MeyoeW kesÀ  
efueS SkeÀ Meyo

### Unit-4

(1.) Meyo Megefo, cegneyejW Dewj ueeskeÀesefkele³eBe

### Unit-5

Efnefvo mebcHe^<eCe keÀer DeJeOeejCee Deewj cenlJe

### Mark Distribution:

Unit-1 mes mid Sem Exam. kesÀ meJeeue –(10 Marks)

Unit-2, 3, 4, 5& 6 mes –End Sem Exam 08 x 5=(40 Marks)

### Book for Reference:

- (1) DeeOegefvekeÀ efnvoer y³ekeÀjCe Deewj j®evee- yemegosJe  
vebove He^meeo
- (2) He^³esefiekeÀ efnvoer – [e.ieg.ce. Keeved –meyeveced yegkedÀ  
<ierj, keÀikeÀ
- (3) He^³eespeve cetuekeÀ efnvoer – kewÀueeme ®ebo Yeeefi³ee

### URDU

Internal Assessment: Time 1 Hr. Full Marks-10

Semester Assessment: Time-2 Hr. Full Marks-40

### Unit-1 PROSE

(12)

1. Mujhe mera Dost se Bachao- Sajjad Haider

2. Chema ka Ishq – Pitras Bukhari
3. Haj-e-Akbar-Prem Chand
4. Aakhri Qudam –Zakir Hussain

There shall be one long question with alternative carrying 12 marks.

**Unit-2: POETRY** (12)

1. Naya Shewala- Mohmmad Iqbal
2. Aasmi Nama-Nazir Akbar Aabadi
3. Kashmir- Durga Sahy Suroor
4. Nasha-re-Ummid – Altaf Hussain Hali

There shall be one long question with alternative carrying 12 marks.

**Unit-3: GRAMMAR** (8)

Ism, Sifat, Fail, Wahid-o-Jama, Mutazad Alfaz, Mutashabeh Alfaz, Tazkeer-o-Tanees.

There shall be one question with alternative carrying 8 marks.

**Unit-4: RHETORIC** (8)

Tashbeeh, Isteaar, Kenaya, Majaz-e-Mursal, Tazad, ham, Maratun Nazir.

There shall be one question with alternative carrying 8 marks.

**SUGGESTED READING:**

1. URDU ZABAN-O-QAWAID-PART (I)- SHAFI AHMED SIDDIQI
2. IL MUL BALAGHAT – ABDUL MAJID

**SEMESTER-III**

**SEC-I**

Question must be set from all units with alternatives and each question will be both long and short answer type

**Duration- 2 Hrs, Mid Sem -10, End Sem-40, Total Marks-50**

**Communicative English**



There shall be one paper in communicative English of skill enhancement course of Arts/Science students of +3 2<sup>nd</sup> Yr. 3<sup>rd</sup> Semester carrying 40 marks and will be of 2 hours duration.

Paper-I: Skill Enhancement Course of Arts/Science and Commerce students

This course aims at enhancing the English Language of Arts/ Science / Commerce proficiency of undergraduate students of ARTS, SCIENCE and COMMERCE in humanity and preparing them for the academic, social and professional expectations during and after the course. The course will help to enhance communicative skill and social English competencies in speaking , listening, reading, writing, Grammar ad Usage.

The course will have 2 credits (50 Marks)

Mid semester-10 marks Time, 1 Hour End Sem 40 marks Time 2 hours (there Shall be 3 units)

Candidates shall have to attempt one long answer type question carrying 4 marks from each until. Alternative questions will be set (from each) against each question.

**Unit-1**      Communication: The concept, purpose of communication,  
Types of Communication, Verbal Communication,  
Non-verbal Communication, Non-verbal Communication: Body  
Language  
Business Communication, Barriers to communication,  
Overcoming communication Barriers  
How to sender can overcome communication barriers  
How to receive can overcome communication barriers.  
Developing effective messages

**UNIT-II**      How can we make communication effect?

Listening

Clarity and Brevity of ideas

The “you” Attitude

Simple and plain English, positive attitude and Bias free language

Computer- Mediated Communication (CMC)

**UNIT-III A.** How we speak English: The Respiratory system

The Phonatory system, The Articulator System,

International Phonetic Alphabet (IPA), Transcription

Vowels of English, Consonants of English, Varieties of English,

Standard English, American English, Indian English,

Word Stress: Functions of Word stress in English, Intonation

**B.** Grammar: Aid to communication

Time and Tense: Aspect of Event verb and state verb

Concord. Finite verb and Non-finite verbs,

Interrogatives: Open Questions, Closed Questions and : Rhetorical Questions

Books prescribed:

Smith L.E. Readings in English as an international Language, Oxford, Pergamon press (1983)

Banasal. R.K and J.B Harrison- Spoken English – A manual of speech and phonetics. Madras Orient Longman 1972

Dr. Das Shruti, Contemporary Business Communication New Delhi, S.Chand Publishing, 2008.

O. Conner. J.D Better English pronunciation, 2<sup>nd</sup> ed. Cambridge, Cup, 1980.

Division of marks:

- Unit-I (1) One long answer type question carrying 8 marks-  $1 \times 8 = 08$   
(2) Two short answer type Questions carrying 4 marks each-  $2 \times 4 = 08$
- UNIT-II (1) One long answer type question carrying 8 marks –  $1 \times 8 = 08$   
(2) Two Short answer type questions carrying 4 marks -  $2 \times 4 = 08$
- UNIT-III (1) One long answer type question carrying 8 marks -  $1 \times 8 = 08$   
(2) Two short answer type questions carrying 4 marks each -  $2 \times 4 = 08$

## SEMESTER – I

### Core Course-I

Duration- 3Hrs., Mid Sem. – 15, End Sem- 60, Practical – 25, Total Marks- 100

Questions must be set from all units with alternatives and each question will be both long and short answer type.

### PHYSIOLOGY

(To understand the structure and functions of various organs of the body. To obtain better understanding of the body mechanism through the study of Physiology.

#### Unit-I Basic Physiology:

- Cell- it's structure, functions and division.
- Blood- it's composition and functions.
- Blood group and RH factor.

#### Unit-II Circulatory System:

- Structure and functions of Heart.
- Types of circulation- Systemic and pulmonary blood circulation.
- Portal, coronary and cardiac cycle.

#### Unit-III Body System:

- Digestive System- structure and functions of different parts of alimentary canal.
- Digestive glands – their location and secretion.

#### Unit-IV Body Glands:

- Location and functions of pituitary, thyroid, parathyroid and adrenal glands.
- Structure and functions of kidney.

- Formation of Urine and regulation of body.

PRACTICAL Practical Exam.- 20

Record & Class work-05

- Prepare a poster showing the entire Digestive system.
- Prepare a poster reflecting Blood circulation system in the body.
- Prepare poster to show location and structure of kidney.

SEMESTER – I

Core Course-I

Duration- 3Hrs., Mid Sem. – 15, End Sem- 60, Practical – 25, Total Marks- 100

Questions must be set from all units with alternatives and each question will be both long and short answer type.

Food & Nutrition

Objective:

- To have a basic concepts in food and nutrition and to lead a healthy life.

Unit-I Basic Concept:

- Basic terms used in study of Food and Nutrition.
- Understanding relationship between food, nutrition and health.
- Functions of food- Psychological, Physiological and Social.

Unit- II Nutrients:

Functions, Dietary sources, classification composition and deficiency of the following-

- Carbohydrate, protein and fat.
- Minerals- Calcium, Iron, Zinc & Iodine.
- Vitamins- A, D, E, K ( Fat soluble) and Thiamin, Riboflavin, Niacin, Vita `B<sub>12</sub>` and Vita `C` ( water Soluble)

Unit-III Methods of Cooking

- Dry, moist, frying and Microwave cooking.
- Advantages and disadvantages of each method of cooking in relation to nutritive value.

Unit-IV Fleshy food and Beverages.

- Meat, fish, egg and poultry – their composition, sources, Nutritive values and effect of cooking on nutritive value.
- Beverage- Tea, Coffee, Cocoa and fruit Juice and Shake.

PRACTICAL Practical Exam.- 20

Record & Class work-05

- Preparation of different dishes for meal and snacks (2 for each) using the following methods of cooking (Dry, Moist and Microwave) & frying
- Beverages: Cold and Hot (2 each ) using milk and seasonal fruits.

SEMESTER – I/III

GE-1/3

Core Course-I

Duration- 3Hrs., Mid Sem. – 15, End Sem- 60, Practical – 25, Total Marks- 100

Questions must be set from all units with alternatives and each question will be both long and short answer type.

FUNDAMENTAL NUTRITION

Objectives

- To understand about the importance, need and requirements of nutrition in daily life.

Unit-I General concepts:

- Meaning and importance of food and Nutrition and basic terms used in food and Nutrition.
- Function of food- psychology, physical and social
- Planning of Balanced diet- Important and factors influencing it.

Unit-II Basic food Groups.

- Cereals
- Pulses
- Fruits and vegetables
- Milk and Milk products
- Fleshy foods
- Facts and Oils
- Spices and Condiments
- Beverages

Unit-III Food preservation:

- Meaning & Importance
- Principles of food preservation
- Methods ( Household & Commercial) (Dehydration, Refrigeration, Freezing Sterilization, pasteurisation, addition of salt, sugar, pickling and use of Chemical preservatives)

Unit-IV            Food Adulteration & Additives

- Types of food Adulteration
- Food laws and standards
- Flavouring Agents and colouring Agents.

PRACTICAL Practical Exam.- 20

Record & Class work-05

Food preparation with natural quality and method of cooking.

- Cereals: Boiled Rice, palos, paratha, puri, etc. (Two types each)
- Vegetables: Curries & dry preparation.  
Fermented products: Idly, dosa, Kulcha, dhokla and batura.

SEMESTER – II

Core Course-3

Duration- 3Hrs., Mid Sem. – 15, End Sem- 60, Practical – 25, Total Marks- 100

Questions must be set from all units with alternatives and each question will be both long and short

HUMAN DEVELOPEMENT

(The childhood Years)

Objective

To understand the importance of Human developement and growth pattern of children in early stage.

Unit-I            Introduction to Human Developement

- Definition, History and inter disciplinary nature of Human Developement.
- Scope of human Developement in contemporary society.
- Principles of Growth and Developement and factors influencing them.

Unit-II            Prenatal Developement, Birth and the Neonate.

- Conception- period of ovem, period of ebriyo and period of fetus.
- Factors influence prenatal Developement maternal- malnutrition, emotional states, maternal diseases, age, drugs, Rh factor, radiation.
- Birth Hazards and care of Newborn.

Unit-III            Infancy and pre School Years.

- Factors influencing development during the period of infancy and pre- school.
- Physical Development- Physical Growth cycle, body size, body proportion bones, muscles, teeth and nervous system.
- Motor Development- (principles, sequences and some common motor skills.)

#### Unit-IV Early Child Development

- Emotional development, importance characteristics types and some common emotional pattern (fear, anger, jealousy, curiosity, joy affection)
- Social development: meaning, importance of early social experiences, play- value, types and characteristics.
- Speech development- pre- speech forms of communication, conditions contribute to learn speech to speak.

#### PRACTICAL Practical Exam.- 20

##### Record & Class work-05

- Preparation of posters (educational) for the children
- Building plays material- soft toys and other equipments.
- Methods of study- Narratives- story telling and observation of behaviour. (in any one play school)
- Interview methods- to reflect parent child Interaction.

#### RECOMMENDED READINGS

- RICE F.P (1998) Human Development: A lifespan approach, New Jersey prentice Hall.
- Santrock. J.W. (2007) A topical approach to lifespan development, New Delhi. Total McGraw-Hill.
- Singh. A. (Ed.) (2005) foundations of Human Development. A lifespan approach, New Delhi, Orient Black Swan.
- A. Chowdhury. Text Book on Child Developments family & Retation. Academic Excellence, New Delhi.

#### SEMESTER – II

##### Core Course-3

Duration- 3Hrs., Mid Sem. – 15, End Sem- 60, Practical – 25, Total Marks- 100

Questions must be set from all units with alternatives and each question will be both long and short

#### CLOTHING AND TEXTILE

Ovjective:

To again knowledge about textile fibers, laundry work and care of clothing.

Unit-I Introduction of Textile fibers.

- Fiber classification – Natural & manmade.
- Study of natural fibers- cotton, silk and wool- their sources, manufacturing process and physical chemical properties.
- Fiber Identification – visual, burning and under micro scope.

Unit-II Clearing Dyeing

- Washing and finishing of cotton, silk and woollen garments. (Methods and principles)
- Fundamental of dyeing, types and classification, (Method of Home dyeing).
- Dry cleaning- method. Chemical used, advantages & disadvantages.

Unit-III Basic wet finishes

- Classification and use of finishes objectives (calendaring, sharing, Tentering, bleaching, sizing, glazing)
- Soap and detergents, (Types and methods of application)
- Water – hard and soft water, reasons and chemical properties.

Unit-IV Glazing and finishing agents.

- Stiffening agent- (purpose, types and methods of application)
- Bleaches – Oxidising and Reducing.
- Blue- purpose, classification and methods of use.

PRACTICAL Practical Exam.- 20

Record & Class work-05

- Identification of cotton, silk and wool by visual, burning and microscopic test.
- Washing and finishing of cotton, silk and woollen garments.
- Preparation of two types of stiffening agents using different method.
- Home dyeing (clothes garments)

RECOMMENDED READINGS

- Fiber to fabric – carbman B.P.
- Fundamentals of Textiles & their care- dantyagi S.
- Textbook of clothing and Textile- Gupta S. Gang N and Saini.R.
- Household Textiles and Laundry work- Deular. S.



Core Course-2/4

Duration- 3Hrs., Mid Sem. – 15, End Sem- 60, Practical – 25, Total Marks- 100

Questions must be set from all units with alternatives and each question will be both long and short

## FOOD SCIENCE AND DIETICS

Objective:

To have a general idea about food sciences, balanced diet.

To learn what is RDA and its importance and to study about nutrition during life cycle.

### Unit-I Introduction to Food Science

- Food. Nutrition and Nutrients- definition, meaning, importance and need in daily life.
- Recommended Daily Allowances- need, and factors influencing for its formulation.
- Guide line for Good Health.

### Unit-II Balanced Diet.

- Meaning importance principles and significance.
- Factors affecting Balanced Diet.
- Dietary intake for General man/ Women and special condition like pregnancy and lactation.

### Unit-III Meal Planning

- Importance need and significance
- Meal planning for low, middle and high income level.
- Enhancing the nutritive value of foods. Substitution, supplementation, fermentation and combination.

### Unit-IV Nutrition during life cycle

- Preschool children
- Adult man/ women
- Pregnancy and Lactation
- Old Age.

PRACTICAL Practical Exam.- 20

#### Record & Class work-05

- Prepare a diet for fermented, cereal + pulse combination.
- Prepare the whole day menu for a middle and high income family and prepare any one diet for snack and lunch.
- Plan a balanced diet during pregnancy and lactating period and prepare dinner for pregnant / Lactating women.

PEFFERENCE BOOK:

- Principles of Nutrition and Dieteties, Bappes, Banglore- Vol-1, XII, swaminatnan.
- Text Book of Home Science- Premlata Mallik.
- Food & Nutrition- Arya Publication.
- Food Science – B. Srilaxmi, New Age Publication.
- Nutrition Science-B. Srilaxmi, New Age Publication.
- Nutrition and diet therapy. S.R. Mudambi. M.V. Rajagopala, New Age Publication.
- Human Nutrition- B Srilaxmi- New Age Publicatin.