

GURU KASHI UNIVERSITY



Bachelor of Arts

Session: 2022-23

Department of Arts

PROGRAM LEARNING OUTCOMES

After successful completion of the program, the students will be able to:

- Apply the knowledge of different prescribed subjects in creating team feeling by getting employment and social support.
- Examine the social, political, cultural, ecological, economic and religious problems in the light of the study of concerned contents of the programme.
- Develop critical thinking to carry out investigation about various socio-economic-political-cultural-environmental issues objectively while bridging the gap between theory and practice.
- Apply economic theories of the course contents to real life issues in fields of economics as well as contemporary social issues along with formulation and analysis of policy.
- Develop understanding of environment and creating awareness to save environment along with development that may not greatly affect our environment.
- Encourage the application of knowledge by concentrating on project work and by providing an opportunity to engage in the projects and presenting a relevant report.

Programme Structure

Semester-I						
Course Code	Course Title	Course Type	L	T	P	Credits
BAT101	English	Core	4	0	0	4
BAT102	Punjabi	Generic Elective	4	0	0	4
BAT103	Punjab History & Culture					
BAT104	Fundamental of Computer -I	Technical Skill	0	0	4	2
BAT105	Environment Education	Ability Enhancement	1	0	0	1
BAT106	Personality Development	Skill Based	2	0	0	2
BAT199		MOOC	-	-	-	-
Select Any three in groups below (I, II, III, IV)						
Group-I (Any one of the following)						
BAT107	English Literature	Group-I	3	0	0	3
BAT108	Punjabi Literature					
BAT109	Hindi Literature					
Group -II (Any one of the following)						
BAT110	Economics	Group-II	3	0	0	3
BAT111	Sociology					
BAT112	Political Science					
Group-III (Any one of the following)						
BAT113	History	Group-III	3	0	0	3
BAT114	Religion					
BAT115	Mathematics					
Group-IV (Any one of the following)						
BAT116	Physical Education	Group-IV	2	0	2	3
BAT117	Fashion Designing					
BAT118	Home Science					
BAT119	Music					
Total			20	0	0	22

Semester-II						
Course Code	Course Title	Course Type	L	T	P	Credits
BAT201	English	Core	4	0	0	4
BAT202	Punjabi	Generic Elective	4	0	0	4
BAT203	Punjab History & Culture					
BAT204	Fundamental of Computer -II	Technical Skill	0	0	4	2
BAT205	Translation	Ability Enhancement	1	0	0	1
BAT206	Ethics and Value	VAC	2	0	0	2
Select Any three in groups below						
Group-V (Any one of the following)						
BAT207	English Literature	Group-V	3	0	0	3
BAT208	Punjabi Literature					
BAT209	Hindi Literature					
Group -VI (Any one of the following)						
BAT210	Economics	Group-VI	3	0	0	3
BAT211	Sociology					
BAT212	Political Science					
Group -VII (Any one of the following)						
BAT213	History	Group-VII	3	0	0	3
BAT214	Religion					
BAT215	Mathematics					
Group -VIII (Any one of the following)						
BAT216	Physical Education	Group-VIII	2	0	2	3
BAT217	Fashion Designing					
BAT218	Home Science					
BAT219	Music					
Total			20	0	0	22

Semester-III						
Course Code	Course Title	Course Type	L	T	P	Credits
BAT301	English	Core	4	0	0	4
BAT302	Punjabi	Generic Elective	4	0	0	4
BAT303	Punjab History & Culture					
BAT304	Archives and Museums	Technical Skill	0	0	4	2
BAT305	Listening and Speaking Skills	Ability Enhancement	1	0	0	1
BAT399		MOOC	-	-	-	0
Select Any three in groups below						
Group-IX (Any one of the following)						
BAT306	English Literature	Group-IX	3	0	0	3
BAT307	Punjabi Literature					
BAT308	Hindi Literature					
Group -X (Any one of the following)						
BAT309	Economics	Group-X	3	0	0	3
BAT310	Sociology					
BAT311	Political Science					
Group -XI (Any one of the following)						
BAT312	History	Group-XI	3	0	0	3
BAT313	Religion					
BAT314	Mathematics					
Group -XII (Any one of the following)						
BAT315	Physical Education	Group-XII	2	0	2	3
BAT316	Fashion Designing					
BAT317	Home Science					
BAT318	Music					
Total			18	0	0	22

Semester-IV						
Course Code	Course Title	Course Type	L	T	P	Credits
BAT401	English	Core	4	0	0	4
BAT402	Punjabi	Generic Elective	4	0	0	4
BAT403	Punjab History & Culture					
BAT404	Creative Writing	Technical Skill	0	0	4	2
BAT405	Reading and Writing Skills	Ability Enhancement	1	0	0	1
BAT437	Science and Technology during colonial period	Value Added Course	2	0	0	2
Select Any three in groups below						
Group-XIII (Any one of the following)						
BAT406	English Literature	Group-XIII	3	0	0	3
BAT407	Punjabi Literature					
BAT408	Hindi Literature					
Group -XIV(Any one of the following)						
BAT409	Economics	Group-XIV	3	0	0	3
BAT410	Sociology					
BAT411	Political Science					
Group -XV (Any one of the following)						
BAT412	History	Group-XV	3	0	0	3
BAT413	Religion					
BAT414	Mathematics					
Group -XVI (Any one of the following)						
BAT415	Physical Education	Group-XVI	2	0	2	3
BAT416	Fashion Designing					
BAT417	Home Science					
BAT418	Music					
Total			18	0	0	22

Semester-V						
Course Code	Course Title	Course Type	L	T	P	Credits
BAT501	English	Core	4	0	0	4
BAT502	Punjabi	Generic Elective	4	0	0	4
BAT503	Punjab History & Culture					
BAT504	Script Writing	Technical Skill	0	0	4	2
BAT505	Basics of Research	Research Based	3	0	0	3
BAT599		MOOC	-	-	-	2
Select Any three in groups below						
Group-XVII (Any one of the following)						
BAT506	English Literature	Group-XVII	3	0	0	3
BAT507	Punjabi Literature					
BAT508	Hindi Literature					
Group -XVIII(Any one of the following)						
BAT509	Economics	Group-XVIII	3	0	0	3
BAT510	Sociology					
BAT511	Political Science					
Group -XIX (Any one of the following)						
BAT512	History	Group-XIX	3	0	0	3
BAT513	Religion					
BAT514	Mathematics					
Group -XX (Any one of the following)						
BAT515	Physical Education	Group-XX	2	0	2	3
BAT516	Fashion Designing					
BAT517	Home Science					
BAT518	Music					
Total			20	0	0	24

Semester-VI						
Course Code	Course Title	Course Type	L	T	P	Credits
BAT601	Project (Based on Inter-Discipline Elective)	Research Based	24	0	0	24
Total			24	0	0	24

Evaluation Criteria for Theory Courses

A. Continuous Assessment: [25 Marks]

- i. C1 (10 Marks)
- ii. C2 (10 Marks)
- iii. C3 (5 Marks)

For each CA conduct surprise test, quiz, term paper, assignments, etc.

- B. Attendance (5 marks)
- C. Mid Semester Test-1: (30 Marks)
- D. Mid Semester Test-2: (20 Marks)
- E. End-Term Exam: (20 Marks)

Semester-I**Course Title: English****Course Code: BAT101**

L	T	P	Cr
4	0	0	4

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Synthesise four basic skills of language –reading, writing, listening and speaking.
2. Communicate and converse in English in real life situations.
3. Internalize the grammar and appropriate vocabulary of English language.
4. Inculcate writing skill to apply at diverse levels of composition.

Course Content**UNIT-I****14 hours**

- 1 Prose Parables (Orient Blackswan, 2013)-The following stories from the above volume are prescribed:
 - The Kabuliwallah: Rabindranath Tagore
 - The Eyes Are Not Here: Ruskin Bond
 - The Death of A Hero: Jai Nimbkar
 - The Voice of God: Premchand
 - The Portrait of a Lady: Khushwant Singh

UNIT-II**15 hours**

- 2 The Poetic Palette (Orient Blackswan, 2013) The following poems from this anthology are prescribed:
 - The Villain: W.H. Davies
 - Dont's: D.H Lawrence
 - The Tyger: William Blake
 - What Do Animals Dream: Yahia Lababidi
 - Magic Of Love: Helen Farries
 - The Charge of the Light Brigade: Lord Tennyson

UNIT-III**17 hours**

- 3 Texts Prescribed for Grammar Oxford Practice Grammar by John Eastwood (Exercises 01 to 25)

UNIT-IV**14 hours**

4. Writing skills

- Email
- Applications: Official
- Report writing for media
- Consulting Dictionaries

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Best, Wilfred D. *The Student's Companion*, The Pearson Education, 1983.
- Eastwood, John. *Oxford Practice Grammar*, OUP, 2004.

Course Title: ਪੰਜਾਬੀ

L	T	P	Cr.
4	0	0	4

Course Code: BAT102

Total Hours: 60

Course Outcomes: On successful completion of this course, the students will be able to

1. AwDuinkpMjwbliedWgldybwrjwXkwrlpRdwnkrnw[
2. inbMDrcnwqypYrHwrcnwbwrjwXkwrlDyxw[
3. pMjwblBwSwdlivAwkrnbwrjwXkwrlDyxw[
4. in`jlic`Tlp`qrbwrjwXkwrlDyxw[

Course Content

ਭਾਗ-ੳ

15 ਹੋਰਸ

1. ਇਕਾਂਗੀਯਾਤਰਾ, ਡਾ. ਸਤੀਸ਼ਕੁਮਾਰਵਰਮਾਅਤੇਡਾ. ਰਘਵੀਰਸਿੰਘ (ਸੰਪਾਦਕ); ਪਬਲੀਕੇਸ਼ਨਬਿਊਰੋ, ਪੰਜਾਬੀਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

ਭਾਗ-ਅ
ਹੋਰਸ

15

2. ਨਿੱਜੀਚਿੱਠੀਪੱਤਰ।
3. ਇਸ਼ਤਿਹਾਰਲੇਖਣਅਤੇਸੱਦਾਪੱਤਰਲੇਖਣ
4. ਸੰਖੇਪਨਿਬੰਧਰਚਨਾ (250-300 ਸ਼ਬਦਾਂਵਿਚ)

ਭਾਗ-ੲ

15 ਹੋਰਸ

5. ਭਾਸ਼ਾ: ਪਰਿਭਾਸ਼ਾਅਤੇਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਮਾਤਭਾਸ਼ਾਦਾਮਹੱਤਵ

ਭਾਗ-ਸ

15 ਹੋਰਸ

6. ਪੰਜਾਬਦੀਆਂਉਪਭਾਸ਼ਾਵਾਂ (ਮਾੜੀ, ਮਲਵਈ, ਦੁਆਬੀਅਤੇਪੁਆਧੀ)

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

pusqksUcI:

- fw. sqISkumwrvrmwAqyfw. rGvIrisMG (sMpwdk); iekWgIXwqrw, pblIkySnibaUro, pMjwbIXUnIvrstI, pitAwlw[
- joigMdrisMGpuAwr, bldyvisMGcImw, suKivMdrisMGsMGwAqyvvdAgnIhoqrI, pMjwbIBwSwdwivAwkrn (Bwg-pihlw), pMjwbIBwSwAkwdmI, jIMDr[
- ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਜਨਮ ਤੇ ਵਿਕਾਸ, ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼, ਮੈਦਾਨ ਪਬਲਿਕੇਸ਼ਨ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਪਟਿਆਲਾ।

Course Title: Punjab History & Culture

Course Code: BAT103

L	T	P	Cr.
4	0	0	4

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Punjab history is bone of Indian history. So it is too much important.
2. The Punjab region of India and Pakistan has a historical and cultural link to Indo-Aryan peoples as well as partially to various indigenous communities.
3. As a result of several invasions from central Asia and the Middle East, Many ethnic groups and religions make up the cultural heritage of the Punjab.
4. Develop understand the glory of Indian history in age of Harappan Civilization.

Course Content

UNIT-I **14 hours**

1. Physical features of the Punjab & their impact on history.
2. Sources of the Ancient History of Punjab.

UNIT-II **15 hours**

3. Harappan Civilization: important places, script, town planning.
4. Rig Vedic Civilization: original home of the Aryans; their social, political economic and religious life.

UNIT-III **17 hours**

5. Later Vedic Civilization: Political, Social and Religious life.
6. Teachings and impact of Jainism.

UNIT-IV **14 hours**

7. Buddhism
8. Alexander's Invasions and its impact.

Course Title: Fundamentals of Computer-I

Course Code: BAT104

L	T	P	Cr.
0	0	4	2

Total Hours: 30

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Classify binary, hexadecimal and octal number system and their arithmetic operations.
2. Analyze the concept of computer devices and recognition of the basic terms used in computer programming.
3. Identify and learn the details of the components of a personal computer system.
4. Demonstrate the functions of computer programming languages.

Course Content

UNIT-I

10 hours

Computer Fundamentals: Block diagram of a computer, characteristics of computers and generations of computers.

Number System: Bit, byte, binary, decimal, hexadecimal, and octal systems, conversion from one system to the other, representation of characters, integers and fractions.

UNIT-II

8 hours

Binary Arithmetic: Addition, subtraction and multiplication.

Computer Codes: weighted and non-weighted code, BCD, EBCDIC, ASCII, Unicode.

UNIT-III

8 hours

Input Devices: Keyboard, Mouse, Joy tick, Track Ball, Touch Screen, Light Pen, Digitizer, Scanners, Speech Recognition Devices, Optical Recognition devices – OMR, OBR, OCR

Output Devices: Monitors, Printer and its Types.

UNIT-IV

4 hours

Memories: Units of Memory, Main Memories - RAM, ROM and Secondary Storage Devices - Hard Disk, Compact Disk, DVD.

Introduction to Computer Terms like Hardware, Software

Transaction Mode: Video based Teaching, Collaborative Teaching, Cooperative Teaching; Case based Teaching, Power point Presentation.

Suggested Readings

- Sinha P.K. and Sinha P. (2002). *Foundations of Computing*, First Edition, BPB. Sanders D.H. (1988). *Computers Today*, Fourth Edition, McGraw Hill.

- Rajaraman V. (1996). *Fundamentals of Computers*, Second Edition, Prentice Hall of India, New Delhi.
- Jain Satish (1999). *Information Technology*, Paperback Edition, BPB.

Course Title: Environment Education

Course Code: BAT105

L	T	P	Cr.
1	0	0	1

Total Hours: 15

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Measure environmental variables and interpret results
2. Evaluate local, regional and global environmental topics related to resource use and management
3. Propose solutions to environmental problems related to resource use and management
4. Interpret the results of scientific studies of environmental problems

Course Content

UNIT-I

12 hours

The Multidisciplinary nature of environmental studies

Definition, scope and importance, Need for public awareness.

Natural Resources

Renewable and non-renewable resources:

- a) Forest resources: Use and over-exploitation, deforestation, Timber extraction, mining, dams and their effects on forests and tribal people.
- b) Water resources: Use and over-Utilization of surface and ground water, floods, drought, conflicts and water, dams-benefits and problems.
- c) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.
- d) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies.
- e) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

UNIT -II

10 hours

Ecosystem

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids

UNIT -III

11 hours

Environmental Pollution

Definition

- Causes, effects and control measures of: -
 - a. Air pollution
 - b. Water pollution
 - c. Soil pollution
 - d. Noise pollution
- Role of an individual in prevention of pollution.
- Disaster management: floods, earthquake, cyclone and landslides.

UNIT-IV

12 hours

Social Issues and Environment

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and control of Pollution) Act
- Wildlife Protection Act
- Forest Conservation Act

Human Population and Environment

- Population growth, variation among nations
- Effects of Population explosion on Environment
- Environment and human health
- Suggestions to control population growth.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Aggarwal, K. C. 2001. Environment Biology. Nidi Publ. Ltd. Bikaner.
- Jadhav, H & Bhosale, V.M. 1995. Environment Protection and Laws, Himalaya Pub House, Delhi 284p.
- Rao M. N. & Datta A.K. 1987. Waste Water Treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 45p.
- Cunningham, W.P. Principle of Environment Science.
- Joseph. Essentials of Environment Science.
- Rao, C.S. Environment Pollution Control Engineering.
- Kaushik, A. Perspectives in Environmental Studies.
- Meenakshi. Elements of Environment Science & Engineering.
- Duggal, Elements of Environment Engineering.

Course Title: Personality Development

Course Code: BAT106

L	T	P	Cr
2	0	0	2

Total Hours: 15

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Introspect & develop a planned approach towards his career & life in general.
2. Have clarity on his career exploration process and to match his skills and interests with a chosen career path. .
3. Develop thinking ability and polish his expression in work Place.
4. To prepare for the stress Management, Time management and its techniques.

UNIT-I

3 hours

Personality development, steps, aims and its benefits.
SWOT meaning and types.

UNIT-II

4 hours

Workplace Etiquette: Etiquette in the modern workplace. Workplace etiquette
Culture sensitivity, Gender sensitivity, Importance of Grooming Etiquette in interaction

UNIT-III**4 hours**

Motivation, Introspection, Self-Assessment, Self-Appraisal and Self-development, Introvert, Extrovert & Ambivert person, Effective Communication & Its key aspects.

UNIT-IV**4 hours**

Stress Management: Introduction, Causes, stress management techniques, Time management: Importance of time management, Techniques of time management, Time management styles.

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Sabina Pillai and Agna Fernandez: *Soft Skills and Employability Skills*. Cambridge University Press, 2018.
- Kadam , J.R. and V.G. Patil.. *Communication Skills and Personality Development*, Scientific Publishers, 2018

Course Title: English literature

Course Code: BAT107

L	T	P	Cr
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Construct four basic skills of language –reading, writing, speaking and listening.
2. Explain English literature and its various genres.

3. Demonstrate the knowledge of Prose and the literary terms pertaining to it.
4. Grasp the individual sounds/symbols of English language and Phonemic Transcription.

Course Content

UNIT-I

11 hours

1. What is Literature?
2. Various Genres of Literature
3. Literature and History

UNIT-II

13 hours

1. Prose
2. The Types of Prose
 - (i) Narrative
 - (ii) Epic
 - (iii) Dramatic
 - (iv) Informative
 - (v) Contemplative
 - (vi) Satire
 - (vii) Allegory
 - (viii) Parable
 - (ix) Oxymoron
 - (x) Biography and Autobiography
 - (xi) Irony
 - (xii) Fable
 - (xiii) Lyric
 - (xiv) Paradox

UNIT-III

11 hours

Language Items

(a) To Define

Vowel

Consonant

(b)To List

Phonemic Transcription of some given words (One or two syllable)

UNIT-IV**10 hours****Prescribed Text**

A Selection of English Prose compiled and edited by University of Kashmir, Dept. of English, Orient Longman 1999.

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Abrams, M.H. *A Glossary of Literary Terms*, Cengage Learning India, 2015.
- *Twentieth Century Reader's Guide to Literacy Terms*, OUP, 1997.

Course Title: *coxvINpMjwbl*

Course Code: **BAT108**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Outcomes: On successful completion of this course, the students will be able to

1. AwDuinkpMjwblkivqwdybwryjwxkwrIpRdwnkrnw[
2. pMjwblswihqbwryjwxkwrIdyxw[
3. pMjwblkwivSwsqrnwlsMbMDqsMklpWbwryjwxkwrIdyxw[
4. pRo.mohnisMGbwryjwxkwrIdyxw[

Course Content**ਭਾਗ-ੳ****10 hours**

1. ਅਧੁਨਿਕਪੰਜਾਬੀਕਵਿਤਾਦਾਇਤਿਹਾਸ।

भाग-अ **15 hours**
2. सावेपंतर, प्.मोहनसिंघ।

भाग-ब **10 hours**
3. पंजाबीसाहित्यकाइतिहास(800 त्तुं 1500 ई. त्तुं)

भाग-स **10 hours**
4. भारतीयकविशासत्रनालसंबंधतपंजाबकलप-अभिषा, लकसुणा, विअंजनं, रूपाक, उरुमा।

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion.

पुसतकसुची :

- जगबीर सिंघ पंजाबी साहित्य का इतिहास(आदि काल ते भारतीय काल) गुरु नानक देव युनिवर्सिटी, अंमृतसर।
- परमिंदर सिंघ, किरपाल सिंघ कसेल अते रोबिंदर सिंघ लांघा, पंजाबी साहित्य की उतपत्ती ते विकास, लाहौर बुक शाप लुधियाणा।
- संत सिंघ सेधें, समीक्षा पुरालीआं, पंजाब स्टेट टेकसट बुक बेरड, चंडीगढ़।

Course Title: हिन्दीसाहित्यसंजरी

Course Code: BAT109

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. प्रेमचंदकीकेउपन्यासोंकेमाध्यमसेछात्रअनमेलविवाहकेदुश्प्रमानोंसेपरिचितहोंगे
2. छात्रों को हिंदी साहित्य के विभिन्न कालों के विभाजन एवं आदि काल की विभिन्न परिस्थितियों की जानकारी होगी
3. छात्रों को रासो ग्रन्थ की जानकारी मिलेगी
4. विद्यार्थियों की हिंदी साहित्य में रूचि उत्पन्न होगी

Course Content

दीपिका : (काव्य संग्रह) सं० हेमराजनिर्मम, पंजाबीविश्वविद्यालय प्रकाशन

- क. भारतेन्दुहरिष्यन्द्र : यमुना षोभा, भारत, वियोगिनीनारी
 ख. मैथिलीषरणगुप्त : साकेत, दोनोंऔरप्रेमपलताहै, यषोधरा
 ग. जयषंकरप्रसाद : आंसू से, प्रेमपथिक से, आषा
 घ. सूर्यकान्त त्रिपाठीनिराला : जूही की कली, भिक्षुक, विधवा

भाग— ख

11 ीवनते

निर्मला (उपन्यास) (मुंषी प्रेमचंद) राजकमलप्रकाशन, दिल्ली

भाग— ग

10 ीवनते

सजीवकहानियां : सम्पादक डॉ० लक्ष्मीचन्द्र खुराना, पब्लिकेशनब्यूरो, पंजाबविश्वविद्यालय, चण्डीगढ द्वाराप्रकाषितकेवलपांचकहानियां

1. षतरंज के खिलाडी
2. ममता
3. अषिक्षित का हृदय
4. मौत के मुंहमें

भाग— घ

12

ीवनते

हिन्दीसाहित्य का इतिहास : कालविभाजन एवंनामकरण, आदिकालीनपरिस्थितयां (राजनैतिक, धार्मिक, सामाजिक, आर्थिक)

Transaction Mode

Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

सहायकपुस्तकें :

- गुप्त (डॉ.), गणपति चंद्र 'हिंदी साहित्य का वैज्ञानिक इतिहास' (दो खंड) ,लोकभारती प्रकाशन, इलाहाबाद, पंचम संस्करण, 1999
- 2 नगेंद्र (डॉ.) . (सं) , हिंदी साहित्य का इतिहास, मयूर पेपरबैक्स, नोएडा, चौबीसवां संकरण, 1997
- प्रेमचन्द ,निर्मला ,सस्ता साहित्य मंडल ,दिल्ली ,2007
- चतुर्वेदी रामस्वरूप, 'हिंदी साहित्य और संवेदना का विकास'लोकभारती प्रकाशन, इलाहाबाद, नवम संकरण, 1998
- मंगल लालचंद गुप्त 'हिंदी साहित्य का इतिहास', यूनिवर्सिटी बुक सेंटर, कुरुक्षेत्र, द्वितीय संस्करण, 1999
- 6 राय, गोपाल, 'हिंदी कहानी का विकास', राजकमल प्रकाशन, दिल्ली : 2012

Course Title: Micro Economics**Course Code: BAT110**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Describe core micro-economic terms and theories.
2. Comprehend the demand function and production function.
3. Discuss general economic concepts (supply & demand, comparative advantage, opportunity cost, etc.).
4. Explain micro-economic concepts (elasticity, monopoly, price discrimination, etc.).

Course Content

UNIT-I**12 hour**

Subject matter of Economics and theory of consumer behavior: Nature and scope of Economics; Basic Economic Concepts: Wants, Scarcity, Competing Ends and Choice, opportunity cost, marginal changes and efficiency. Utility Analysis: Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility. Law of Demand; Movement and shifts in Demand curve. Indifference Curve Analysis: Properties, Consumer Equilibrium, Price, Income and Substitution Effects, Inferior and Giffen Goods. Elasticity of Demand: Price, Income and Cross elasticity; Degrees of Elasticity; Methods of Measuring Price Elasticity of Demand: point, arc and outlay methods.

UNIT-II**11 hours**

Theory of Production: Concept of Production. Production Function: Linear and Non-Linear Homogeneous Production Function. Scale of Production: Returns to Scale, Law of Variable Proportions, Isoquants, marginal rate of technical substitution, Iso-cost line and firm's equilibrium. Cost structure-

Economic costs, Short and long run costs, Cost Curves, Relation between Average and Marginal Cost Curves in Short and Long Run.

UNIT-III

10 hours

The Market Structure: Market structure: Market forms – Perfect and imperfect markets and their features. Perfect competition-Price and output determination. Short run and Long run equilibrium of the firm. Price and output determination and Firm's equilibrium under monopoly and duopoly. Price and output determination under monopolistic competition. Introduction to oligopoly and concept of Price Rigidity.

UNIT-IV

12 hours

Theory of Distribution: Marginal productivity theory of distribution; Modern Theory of Factor Price. Rent- Ricardian theory, Scarcity rent and Quasi Rent. Wages –Real wages and Money Wages, collective bargaining, Wage differentials. Interest –Classical and the Keynesian theory of Interest. Profit – Gross and Net Profit, Normal profit, accounting profit.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Singh, J S, Chopra, P N & Grewal, P S (Punjabi Medium). *Price Theory and Distribution*, Latest edition).
- Stonier, A W & Hague, D C. *A Text Book of Economic Theory* (Fourth Edition).
- Samuelson, P A (1972). (trans. Piar Singh): *Arth-ShastarPrarmbhikVishleshan*, Punjabi University, Patiala.
- Koutsoyiannis, A. (1990), *Modern Microeconomics*, Macmillan.
- Lipsey, R G & Chrystal, K A (2004). *Economics*, 10th Edition, Oxford University Press, New Delhi.
- Salvatore, D (2003). *Micro Economics: Theory & Applications*, Oxford University Press, New York.
- Robinson, J (Trans.). *ApuranPrtiyogita Di Arthiki*, Punjabi University, Patiala.

- Manmohan Singh, H K (1971). (Trans. Om ParkashVashisht). *MangSidhant Ate MishratArth-VivsthaVichArthikGanana*, Punjabi University, Patiala.
- Ray, N C (1980). *An Introduction to Microeconomics*, The Macmillan Company of India Ltd, New Delhi.
- Chopra, P N (1998). *Micro Economic Theory and Welfare Economics*, Kalyani Publishers, New Delhi.
- Ahuja, H L (1999). *Advanced Economic Theory*, S. Chand & Co., New Delhi.

Course Title: Introduction to Sociology

L	T	P	Cr.
3	0	0	3

Course Code: BAT111

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Describe the advanced sociological knowledge focusing on the nature, scope and origin of sociology.
2. Identify the relationship of sociology with other social sciences.
3. Distinguish between cultural explanations.
4. Elucidate the role of organizations, community, and process of socialization.

Course Content

UNIT-I

12 hours

Sociology: Origin, Definition, nature and scope of sociology, Definition, nature & scope, Relationship between sociology and other social sciences (Anthropology, Psychology, Economics, History and Political Science)

UNIT-II

11 hours

Basic Concepts: Social structure, society, social organization, social group (Primary & Secondary), Reference group, Community & Association

UNIT-III

12hour

Norms and values, status and role, Socialization: Meaning, Process and Agencies, Theories- GH Mead, S Freud, CH Cooley

UNIT-IV

10hours

Culture: Meaning characteristics, material and non-material culture, Culture lag, Culture and Civilization.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration.

Text Books:

- Bottomore, T.B .1972. *Sociology: A Guide to Problems and Literature*. Bombay: George Allen and Unwin.
- Gisbert, Pascal.1973.*Fundamental of Sociology*. New Delhi: Orient Longman.
- Thomson, Harry. M.1995.*Sociology: A Systematic Introduction*. India: Allied Publishers.
- Rao, Shankar C.N. 2005. *Sociology Part-I*. Jalandhar: New Academic Publishing House,
- Kaur, Swinderjit.2014. *SmajVigyan De MoolSanklp*. Patiala: Punjabi University Publication Bureau.

Suggested Readings:

- Applebaum, Richard. P.,and William J. Chambliss. 1997.*Sociology*.New York: Addison Welsley Educational Publishers Inc.
- Giddens, Anthony. 2001.*Sociology (Fourth Edition)*. UK: Polity Press.
- Inkeles, Alex. 1982.*Foundations of Modern Sociology*. New Jersey: Prentice Hall, Inc.
- Jayaram, N. 1998. *Introductory Sociology*. India:Macmillan.
- Judge, Paramjit S. 1997. *Samajvigyanik Drishti kontesidhant*. (Punjabi). Patiala: Punjabi University Press.
- Judge, Paramjit Singh. 2012.*Foundation of Classical Sociological Theory: Functionalism, Conflict and Action*. New Delhi: Pearson

Course Title: Political Science-I

L	T	P	Cr
3	0	0	3

Course Code: BAT112

Total Hours45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Illustrate logical arguments about the political phenomena.

2. Identify the questions concerning power, liberal and socialist perspective.
3. Relate political science with other subjects.
4. Classify the political issues of present time and their connectivity with past.

Course Content

UNIT-I

12hours

Political Science: Meaning, definitions, characteristics and scope.
Traditional Political Theory.
Difference between political theory and political science.

UNIT -II

11hours

Relationship between Political Science Economics, History and Sociology.
The State: meaning, definition, elements and difference between and state and government.

UNIT -III

10hours

Functions of state: Socialist perspective.
Functions of state: Liberal perspective.
Welfare state: concept and functions.

UNIT-IV

12hours

Sovereignty: Meaning, definition, characteristics, types and attributes.
Theories of Sovereignty: Monistic and Pluralistic

Transaction Mode: Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

SUGGESTED READINGS

- Lefort, Claude, and David Macey(1988).Democracy and Political Theory,Vol. 225. Cambridge: Polity Press.
- Cohen, Jean L., and Andrew Arato.(1994).Civil society and political theory. MIT press.
- Carnoy, Martin.(2014). The State and political theory. Princeton university press.
- Held, David .(1991).Political Theory today. Stanford University Press.
- Brown, Chris. (2002).Sovereignty, rights and justice: international Political Theory today. Cambridge: Polity.
- D. Easton. (1972.) The Political System, Scientific Book Agency, Calcutta.
- D. Easton.(1965).A System Analysis of Political life, John, Willey.
- Karl W. Deutsch.(1952). The Nerves of Government, The Free, Press, New York.
- Oran R. Young.(1967).Systems of Political Science, Prentice Hall.
- B.L. Fadia: .(1984).State Politics in India, Vol. II, New Delhi, Radint Publisher.
- Laxmikant, M.(2013)Indian Polity, Mchraw Hill Education, New Delhi.

Course Title: Ancient History**Course Code: BAT113**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Understand the various Social & Political concepts and functions working during the Delhi Sultanate.
2. Understand the Market System and Economic development in this period.
3. Make relationship among various Societies.

4. Understand the administrative setup of Sultanate from central to local level.

Course Content

UNIT-I

12hours

The Indus Civilization: Origin; Extent, Main features and the causes of its decline.

Rig Vedic Civilization: Original home of the Aryans; Political, Social, Economic and Religious life in the early Vedic period; Development in the later Vedic period.

UNIT-II

11hours

Jainism: Causes responsible for the rise of new religions; Life and teachings of the Mahavir Swami.

Buddhism: Life and Teaching of the Gautam Budha.

UNIT-III

10hours

The Mauryan Empire: Establishments and Achievements Ashoka's Dhamma, Administration under the Mauryas and their decline.

The Gupta Empire: Social, Economic, Culture and Scientific developments under Guptas

UNIT-IV

12hours

Harsha Vardhan: Harsha Vardhan and Southern Dynasties (Cholas, Pallavs and Rashtrakutas).

Maps: (a) Important Historical places: Taxila, Indraprastha, Kurukshetra, Kannauj, Patliputra, Ujjain, Bodhgaya, Varanasi, Sopara, Ajanta, Ellora, Sanchi, Tanjore, Kanchi, Lothal, Nalanda, Hastinapur, Kalibangan, Harappa and Kalinga. (b) Extent of the Mauryan Empire (c) Gupta Empire under Samundragupta.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Basham, A.L. Wonder That Was India, Calcutta: Rupa, 1992.
- Goyal, S.R., A History of Indian Buddhism, Meerut: Kasumanjli Prakashan, 1987. Habib, Irfan,
- Vivekanand Jha Mauryan India, Delhi: Tulika Books, 2004.
- Jha, D.N., Ancient Indian an Historical Outline, Delhi: Manohar (2nd Rev. ed.), 2005.

- Pandey, V.C. and Pandey, A.C. New History of Ancient India, Jalandhar: A.B.C., 1999.
- Ray Chaudhary, H.C. (re. ed.) by B.N. Mukherjee, Political History of Ancient India, Calcutta: Oxford University Press, 1996.
- Sastri, K.A. Nilakanta, A History of South India, 2nd ed., Oxford University Press, 1958.
- Sastri, K.A. Nilakanta, History of South India, from pre-historic times to the fall of vijaynagar, (4th ed.), Delhi: Oxford University Press, 1995.
- Sharma, R.S., Aspects of Political Ideas and Institutions in Ancient India, Delhi: Motilal Banarasidas, 1991.
- Sharma, R.S. India's Ancient Past, Delhi: Oxford University Press, 2005.
- Sharma, R.S. Looking for the Aryan, Hyderabad: Orient Longman, 1995.
- Tharpar, Romila Early from the Origin to A.D. 1300, Penguin, 2002.
- Altekar, A.S. State and Government in Ancient India, Delhi: Motilal Banarsidas, 1965.
- Bryant, Edwin, Origin of Vedic Culture, Delhi: Oxford University Press, 2001.
- Charkrabarti, Uma, The Social Dimensions of Early Buddhism, Delhi: Oxford University Press, 1987.
- Chattopadhyaya, B.D. Studying Early India, Delhi: Permanent Black, 2003.
- Goyal, S.R. History of Imperial Guptas, Meerut; Kusumanjali, 1967.
- Jha, D.N. (ed.), Society and Ideology in India, Delhi: Sterling Publisher, 1985.
- Levin-Bongard, G.M., Mauryan India, Delhi: Munshiram Manoharlal, 1966.
- Maity, S.K., The Imperial Gupta and their times, Delhi; Motilal Banarsidas, 1975.
- Ratnagar, Shereen, Enquiries into the Political Organization of Harappan Society, Pune: Ravish, 1991.
- Thapar, Romila, Asoka and the decline of the Mauryas, Delhi: Oxford University Press, 1997.

Course Title: Indian Religion

Course Code: BAT114

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

- 1 Understand religious studies, alternately known as the study of religion
- 2 Describe, the concept of historically based, and cross-cultural perspectives.
- 3 Understand that, an etymological analysis alone does not resolve the ambiguity of defining religion, since each verb points to a different understanding of what religion is.
- 4 Know that during the Medieval Period, the term religious was used as a noun to describe someone who had joined a monastic order (a religion).

Course Content

UNIT - I

12hours

1. $vYidkDrmdljwx-pCwx$
2. $vYidkdyvqy:-vrux, Agnl, ieMdr$
3. $bllAqyX\sim g$

UNIT - II

11hours

4. $BgvwnmhWvlr:-jlvnqyivrqWq$
5. $is\sim iKAwwW:-iqMnrqn$
6. $pMjmhWvrq:-AihMsw, s\sim c, AsqyX, ApirgRhAqybRhmcrX$

UNIT - III

10hours

7. ਭਗਵਾਨਬੁੱਧ:-ਜੀਵਨਅਤੇਸਿੱਖਿਆਵਾਂ
8. ਚਾਰਆਰੀਯਾਸਤ:-ਦੁੱਖ, ਦੁੱਖਾਂਦਾਕਾਰਨ, ਦੁੱਖਦੀਨਵਿਰਤੀਅਤੇਦੁੱਖਨਵਿਰਤੀਦਾਮਾਰਗ।
9. ਅਸਟਾਂਗਮਾਰਗ।

UNIT - IV

12hours

10. $jnmsMskwr (jYnDrm, bu\sim DDrm, AqyihMdUDrm)$
11. $DrmpirvySsMskwr (jYnDrmAqybu\sim DDrm)$
12. $imRqksMskwr (ihMdUDrm)$

ਟ੍ਰਾਂਜੈਕਸ਼ਨ ਮੋਡ: ਲੈਕਚਰ, ਸਮੱਸਿਆ ਹੱਲ, ਮਿਸ਼ਰਤ ਸਿਖਲਾਈ, ਚਰਚਾ ਅਤੇ ਪ੍ਰਦਰਸ਼ਨ, ਅਤੇ ਕੇਸ ਅਧਿਐਨ।

Suggested Readings

1. $gurmiqivcwrDwrw, pRlqmisMG,SGPC,sRIAMimRqsrswihb[$

2. *is~Kieiqhws, fw. gMfwisMG, ipRM. qyjwiMsMG, pMjwbIXUnlvristl, pitAwlw[*
3. *ivSvDrmsMgRih: -fw. AYm. AYljosl, pblkySnibauro, pMjwbIXUnlvristl, pitAwlw)*
4. **Punjab Past and Present** (Special Issue), Dr. Ganda Singh

Course Title: Math-1(Matrices and Coordinate geometry)

L	T	P	Cr.
3	0	0	3

Course Code: BAT115

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Grasp the basics of Matrices and coordinate geometry including applied aspect for enhancing quantitative skills and pursuing higher mathematics and research as well.
2. Develop a wide-ranging application of the subject and enlarge the knowledge of matrices for solving linear homogeneous and as well as non-homogeneous system of equations.
3. Equip themselves with necessary analytic and technical skills by applying the principles of geometry, also learns to solve a variety of practical problems in science and engineering.
4. Acquire the standard concepts and tools at an intermediate to advance level of geometrical techniques that will serve towards taking more advance level course in mathematics.

Course Content

UNIT I

12hours

Matrix introduction, matrix operations with their properties, symmetric, skew-symmetric, Hermitian and skew- Hermitian matrices, idempotent, nilpotent, involuntary, orthogonal and unitary matrices, singular and non-singular matrices, elementary operations on matrices, adjoint and inverse of a matrix, singular and non-singular matrices, Trace of a matrix.

UNIT II**11 hours**

Rank of a matrix, elementary transformations of a matrix, elementary matrices, rank of the sum and product of two matrices, inverse of a non-singular matrix through elementary row

transformations, equivalence of matrices.

Solutions of a system of linear equations, condition of consistency and nature of the general solution of a system of linear non homogeneous equations.

UNIT III**11 hours**

Circle: General equation of circle, circle through intersection of two lines, Tangents and Normals, Chord of contact, pole and polar, pair of tangents from a point, equation of chord in terms of midpoint, angle of intersection and orthogonality

Parabola: General equation of Parabola, Properties of Parabola, parametric representation of Parabola, tangents, normal

UNIT-IV**11 hours**

Ellipse: Properties of ellipse, parametric representation of ellipse, tangents and normals.

Hyperbola: Properties of hyperbola, parametric representation of hyperbola, asymptotes of hyperbola, Conjugate hyperbola, tangents and normals.

Transaction Mode- Video Based Teaching, Collaborative teaching, Group Discussion, ted talks, E team Teaching, Flipped Teaching, Quiz, Open talk, Case analysis.

Suggested Readings

- Hari Kishan, (2008), *A Textbook of Matrices*, Atlantic Publishers.
- Fuzhen Zhang, (1999), *Matrix Theory- Basic Results and Techniques*, Springer.
- Shanti Narayan, P.K. Mittal, (2010), *A Textbook of Matrices*, S Chand & Company.
- R.G. Bartle & D.R. Sherbert, (1999), *Introduction to Real Analysis*, John Wiley & Sons.
- T.M. Apostol, (1974), Vol. I, John Wiley & Sons Inc.

- Ajit Kumar and S. Kumaresan, (2019), *A Basic Course in Real Analysis*, CRC Press.
- S. Balachandra Rao & C. K. Shantha, (1992), *Differential Calculus*, New Age Publication.
- H. Anton, I. Birens and S. Davis, (2007), *Calculus*, John Wiley and Sons, Inc.
- G.B. Thomas and R.L. Finney, (2010), *Calculus*, Pearson Education.
- P.K. Jain and Khalil Ahmad: *A Text Book of Analytical Geometry of two Dimensions*, Wiley Eastern Ltd. 1994.
- Gorakh Prasad and H. C. Gupta: *Text Book on Coordinate Geometry*, Pothishala Pvt. Ltd., Allahabad. 2000.
- Suggested digital platform: NPTEL/SWAYAM/MOOCs
- Suggested digital platform: NPTEL/SWAYAM/MOOCs.

Course Title: Physical Education

Course Code: BAT116

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Identify the aims, objectives, history and scope of physical education
2. **Demonstrate personal and environmental hygiene**
3. Learn about the organization and management of various national and international level sports events as well as the sports councils
4. Recognize the national level sports awards

Course Content

Theory

UNIT-I

12hours

Physical Education: -Meaning, aims, objectives, Scope importance and misconceptions of Physical Education.

Explanation of terms in Physical Education: - Recreation, Physical culture coaching, Physical training, Dance

Education: - Meaning, objective and relationship with Physical Education.

UNIT-II

10hours

Health Education: - Meaning, scope, Objectives, Principles, importance and factor influence health.

Healthful school environment: - importance of school site, building, water supply, sanitation, light, ventilation, furniture and playground in healthful school living

Personal Hygiene: - Meaning, need and importance of rest, relaxation and sleep.

UNIT-III

13hours

Post- Independence history of Physical Education in India: - National Sports day, NSNIS, SAI Punjab sports department, sports organization in India (Association and Federation) IOA, IOC and YMCA.

Indian National Games: - Organization, management & salient features.

Sports Award: - Arjun Award, Dronacharaya Award, Rajiv Gandhi Khel Ratna Award, Dhyanchand, Maulana abul Kalam Azad Award.

UNIT-IV

10hours

Sports Board of Councils: - The contribution of Indian council of sports, Central advisory board in physical education, National fitness crops, National discipline scheme, Rajkumari Amrit Kaur Coaching Scheme.

Asian Games, Commonwealth & SAF Games: - Organization, management & salient features.

Olympic Games: - Organization, administration and ceremonies of Ancient and Modern Olympic Games.

Practical

Short Distance Running/ Sprints

8M (Any One Race)

Long Jump	8M (Any One Style)
Shot put	8M (Any One Style)
Kabaddi, Badminton, Football	16M (Any One Game)

Suggested Readings

- Dr. G. S. Kang, Health, Physical Education & Sports,
- Dr. Nishan Singh Deol General Science by S. Chanel.
- Kamlesh, M. L. & Sangral M. S. Principles and History of Physical Education, 1977.
- Environmental Studies: V.K. Khosla, Mrs. Kanta Khosla, Dr. R. S. Rattan
- Environmental Education: Mrs. Saroj Sobti, Surjit Singh

Course Title: Basic of Design and Illustration

Course Code: BAT117

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Learn about the tools and equipment's used to make patterns and sewing of fabrics.
2. Functionality of different types of sewing machines, their parts, working and maintenance related to Entrepreneurship
3. Understand about different kinds of pattern developing, grading methods and techniques.
4. Understand Fabric layout and handling of special fabric. Course Content

Course Content

UNIT-I

12hours

Introduction Garment Manufacturing Technology

Surface Design Techniques

UNIT-II

13hours

Design Illustration

Knitwear Design Technology

UNIT-III

11hours

Visual Design- Principles and Applications

Elements of Fashion

UNIT-IV

9hours

International Fashion Marketing

Graphic Design

Garment Construction

Transaction Mode: Group Discussions, Questions, Project Based Learning, Video Based Teaching

Suggested Readings:

- Mullick, Lata Prem,2010 *Garment Construction Skills*, Kalyani Publishers, New Delhi
- Carr Harold & Latham Barbara,2008, *The Technology of Clothing Manufacture*, Oxford

Course Title: Introduction to Home Science

Course Code: BAT118

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Develop an understanding of the structure, objectives, scope and opportunities for vocalization of Home Science
2. Provide the knowledge of different areas associated with the Home Science
3. Gain the knowledge of Child Development Services of India

4. Develop the skills for practical use of home science in each aspect of life.

Course Content

THEORY

UNIT-I

12hours

Meaning, definitions and structure of Home Science.

Importance of Home Science education.

Aims of teaching Home Science.

UNIT-II

11 hours

Concept and Scope of Home Science

Reasons for vocalization of Home Science.

UNIT-III

09 hours

Correlation of Home Science with other subjects.

Broad areas of Home Science.

UNIT-IV

13 hours

Home Science in Action Programme-

- (a) Applied Nutrition Programme,
- (b) School Meal Programmes,
- (c) Integrated Child Development Services,
- (d) Supplementary foods developed in India- Indian multipurpose food, malt, Bal Ahar, Supplementary food NIN, Supplementary food (AHSCW)

Job opportunities in Home Science.

PRACTICAL

1. Make Samples of the following:
 - (a) Tacking, running stitch, hemming, back-stitch, button hole stitch, fasteners.
 - (b) Seams-Flat seam, counter hem, montua maker, run and fell, French seam.
 - (c) Processes- Continuous wrap, two piece placket opening, pleats, gathers into band.
2. Embroidery-Make a sample of 10 embroidery stitches.

3. Taking body measurements.
4. Drafting and construction of the following:
 - 1) Child's Bodice Block – Child's Frock
 - 2) Jangia, Bloomer
 - 3) Adult Bodice Block and Plain sleeve block.
 - 4) Petticoat/Apron
 - 5) Salwar and Kameez/Kurta-Pyzama

Suggested Readings

- Devadas, Rajamal, P. Text Book of Home Science, Farm Information Unit,
- Directorate of Extension, Ministry of Agriculture, New Delhi 1968.
- Devadas, Rajamal, P. The meaning of Home Science, Sri Avinashilingam Home Science College, Coimbatore, 1973.
- Devadas, Rajamal, P. Methods of teaching Home Science, National Council of Education Research and Training, Delhi 1977.

Course Title: Music

Course Code: BAT119

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Understand the basic terminologies of Indian music.
2. Write the practical composition according to the notation system
3. Write the practical composition according to the notation system
4. Studies about the theoretical aspects of ragas.
5. Know the importance of Taal and Lay in instrument music.

Course Content

UNIT-I

12hours

1. Historical development of music in the following periods:
a) Vedic period b) Natyashastra period
2. Definition and explanation of the following musical term:
Sangeet, Naad, Swara, Saptak, Taal, Laya.

UNIT-II

10hours

1. Importance of Taal and Lay in instrument music.
2. Biographical sketch and contribution towards Indian music of the following:
a) Tansen b) Pandit Vishnu Narayan Bhatknde

UNIT-III

13hours

1. Biographical Sketches and Contribution of the Following:
a) Pt. Jasraj b) Ustad Amir Khan
2. Elementary Knowledge of the following Ragas
a. A) Darbari b) Bhairav

UNIT-IV

10hours

1. Importance of SahayakNad.
10Methods of formation of 72 Thatas of Dakhani Music system of Pandit Vyakant Makhi.
2. Detailed Description and notation of prescribed Ragas:
a) Vrindavani Sarang b) Asawari

Transaction Mode: Lecture, Problem Solving, Discussion, Demonstration

Suggested Readings

- Dr.Davinder Kaur: (1 January 2017) *SangeetRoop(Part-I)*
- Dr. Premlata Sharma: (1 January 2014)*Sangeet Manual*
- Dr. Yaspal Sharma: (1998) *Gayan Kalan*
- Dr.SumanLata: (1997) *Hindustani ShastrisangeetSidhantavamVyavhar*

Semester-II**Course Title: English****Course Code: BAT201**

L	T	P	Cr
4	0	0	4

Total hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Have a concept of the various genres of English literature
2. Internalize the grammar and appropriate vocabulary of English language.
3. Draft letters, applications, essays and reports.
4. Use the literary devices in writing.

Course Content**UNIT-I****16 hours**

- 1 Prose Parables (Orient Blackswan, 2013)-The following stories from the above volume are prescribed:
 - The Face on the wall: E.V. Lucas
 - Green Parrots in a Cage
 - The Doll's House
 - My Brother, My Brother: Norah Burke
 - Dusk

UNIT-II**17 hours**

- 2 The Poetic Palette (Orient Blackswan, 2013)
The following poems from this anthology are prescribed:
 - Letter From Kashmir: Agha Shahid Ali
 - Stopping by the Woods on a Snowy Evening: Robert Frost
 - I Sit and Look Out: Walt Whitman
 - The Old Woman: Arun Kolatkar
 - Poetry: Pablo Neruda
 - After Blenheim: Robert Southey

UNIT-III**16 hours**

- 3 Texts Prescribed for Grammar
Oxford Practice Grammar by John Eastwood (Exercises 01 to 25)

UNIT-IV**11 hours**

- 4 Writing skills
Report Writing
Applications: Commercial
Essays

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Best, Wilfred D. *The Student's Companion*, The Pearson Education, 1983.
- Eastwood, John. *Oxford Practice Grammar*, OUP, 2004.

Course Title: pMjwbl

L	T	P	Cr.
4	0	0	4

Course Code: BAC202

Total hours: 60

Course Outcomes: On successful completion of this course, the students will be able to

1. AwDuinkivigAwnkvwrqkbwryjwxkwrlpRdwnkrnw[
2. pMjwblBwSwdlivAwkrnbwryjwxkwrlpRdwnkrnw[
3. pMjwblIdISbdwbllicvwDwkrnw[
4. pMjwblBwSwdyigAwnivcvwDwkrnw[

Course Content

Bwg-a

12 hours

1. AwDinkpMjwblvwrqkjwx-pCwx

Bwg- A

18 hours

2. vwrqkivvyk, rwijMdrpwlisMGbrwVAqyfw. jgqwrismGjogw (sMpwdk)

Bwg-e

15 hours

3. dPqrlp`qr [

4. noitslyKxAqysmwcwrlyKx[

5. pRYslrcnw[

Bwg-s

15 hours

6. Sbd-SRyxIAW[

7. pMjwbIBwSwdlvwkboxqr

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

pusqksUcl

- rwijMdrpwlisMGbrwVAqyfw.jgqwrismGjogw (sMpwdk): vwrqkivvyk, pbllySnibauropMjwbIXUnlvristl, pitAwlw[
- joigMdrismGpuAwr, bldyvisMGclmw, suKivMdrismGsmGwAqyvydAgnlhoqrl, pMjwbIBwSwdwivAwkrn (Bwg-pihlw),pMjwbIBwSwAkwdml, jIMDr[

Course Title: Punjab History & Culture

Course Code: BAT203

L	T	P	Cr
4	0	0	4

Total hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Study the Punjab can boast of a glorious past and the study of the history of Ancient Punjab is a subject in itself
2. The study of Ancient Punjab History is important to those who want to understand the true nature of the past and also to those who seek to

understand the nature of obstacles that impede Punjab's progress as a nation.

3. Develop understanding the Administration and politics of the ruler in Ancient Punjab.
4. Study about the Bhakti Movement in Punjab.

Course Content

UNIT-I 16 hours

1. Punjab under Mauryas.
2. The Punjab under the Gupta Emperors.

UNIT-II 17 hours

3. Punjab under the Vardhan Emperors.
4. The Punjab from 7th Century to 1000 AD (A survey of Political and Socio-cultural history of Punjab).

UNIT-III 16 hours

5. The Punjab under Turke-Afghan Sultans.
6. The Punjab under the Great Mughals.

UNIT-IV 11hours

7. Development of Art and Architecture up to 1000 AD.
8. Salient features of the Bhakti movement.

Course Title: Fundamentals of Computer-II

Course Code: BAT204

L	T	P	Cr.
0	0	4	2

Total Hours: 30

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Classify binary, hexadecimal and octal number system and their arithmetic operations.
2. Analyze the concept of computer devices and recognition of the basic terms used in computer programming.
3. Identify and learn the details of the components of a personal

computer system.

4. Demonstrate the functions of computer programming languages.
5. Utilize the Internet Web resources.

Course Content

UNIT-I

4 hours

Computer languages: Machine language, assembly language, higher level language, 4GL. Introduction to Compiler, Interpreter, Assembler, Assembling, System Software, Application Software.

II

4 hours

MS Word: Introduction, Creating & Editing Word Document. Saving Document, Working with Text: Selecting, Formatting, Aligning, Finding Replacing Text, Bullets & Numbering, Header & Footer, Working with Tables, Properties Using spell checker, Grammar, AutoCorrect Feature, Graphics: Inserting Pictures, Clipart, Drawing Objects, Setting page size and margins; Printing documents, Mail-Merge.

UNIT-III

3 hours

MS-Excel: Environment, Creating, Opening & Saving Workbook, Range of Cells, Formatting Cells, Functions: Mathematical, Logical, Date Time, Auto Sum, Formulas. Graphs: Charts. Types & Chart Tool Bar, Printing: Page Layout, Header and Footer Tab.

UNIT-IV

4 hours

MS PowerPoint: Environment, Creating and Editing presentation, Auto content wizard using built-in templates, Types of Views: Normal, Outline, Slide, Slide Sorter, Slide Show, Creating, customized templates; formatting presentations, AutoShapes, adding multimedia contents, printing slides

Internet: Basic Internet terms: Web Page, Website, Home page, Browser, URL, Hypertext, Web Server, Applications: WWW, e-mail, Instant Messaging, Videoconferencing.

Transaction Mode: Video based Teaching, Collaborative Teaching, Cooperative Teaching, Case based Teaching, Power point Presentation.

Suggested Readings

- Sinha P.K. and Sinha P. (2002). *Foundations of Computing*, First Edition, BPB.
- Sanders D.H. (1988). *Computers Today*, Fourth Edition, McGraw Hill.
- Rajaraman V. (1996). *Fundamentals of Computers*, Second Edition, Prentice Hall of India, New Delhi.
- Jain Satish (1999). *Information Technology*, Paperback Edition, BPB.

Course Title: Translation

Course Code: BAT205

L	T	P	Cr
1	0	0	1

Total Hours: 15

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Understand the process of translation across the various disciplines.
2. Acquainted with the important translation theories.
3. Learn about the translation theory and its applications like Language variety.
4. Be familiar with the Major writings of Translation studies.

Course Content

UNIT-I Definition & Types of Translation	2 hours
UNIT-II Basic concepts and terms used in Translation Studies: Language variety	4 hours
UNIT-III Role of Translation & Need of Translation	5 hours
UNIT-IV Theories of Translation- Literary and Natural Translation	4 hours

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Baker, Mona and Gabriela Saldanha. *Routledga Encyclopedia of Translation Studies*. Routledge, 2011.
- Venuti, Lawrence (ed.). *The Translation Studies*. Routledge, 2012.
- Kuhiwczak, Piotr and Karin Littau (ed.). *A Companion to Translation Studies by Multilingual Matters*. Cromwell Publishers, 2007.
- 4. Baker, Mona. *Critical Readings in Translation Studies*. Routledge, 2009

Course Title: Ethics & Values

Course Code: BAT206

L	T	P	Cr.
2	0	0	2

Total Hours: 30

Course Outcomes: On successful completion of this course, the students will be able to

1. nYiqkqwdwigAwnpYdwkrnw
2. BwrqlprMprwAqyigAwnbwryjwxkwrlidyxw
3. nYiqkqwnUMivhwrkqwivclwgUkrnw[
4. jlvnivesMjm, swdglAqycMgyjlvnbwryigAwndyxw

Course Content

Bwg-a

10hours

1. isDWqkpirpyK
2. nYiqkqwdwsMklp
3. BwrqlprMprwqynYiqkqw

Bwg-A

6 hours

4. DrmAqynYiqkqw
5. smwjAqynYiqkqw

Bwg-e**6 hours**

6. swihqAqynYiqk qw
7. sMjmAqyswdgl

Bwg-s**8 hours**

8. inmrqwAqySWq subway
9. svYmwnAqyjlvnmnorQ
10. srb-sWJlvwlqw

ਟ੍ਰਾਂਜੈਕਸ਼ਨਮੋਡ: ਲੈਕਚਰ, ਸਮੱਸਿਆਹੱਲ, ਮਿਸ਼ਰਤਸਿਖਲਾਈ, ਚਰਚਾਅਤੇਪ੍ਰਦਰਸ਼ਨ, ਅਤੇਕੇਸਅਧਿਐਨ।

shwiekpusqkW

- nYqikqWAqyswihqkpRvcn, pRo.hrbMSisMGil~t (fw.)
- DrmAqysmwjie`kAiDAYn, jsblrisMGB~lw
- DrmdrSn, mnjlqisMG
- kdrW-klmqWdlis~iKAw, prmjlkOrsMDU
- mwrqmoql, gurUgoibMdisMGst~flsrkl

Course Title: English literature**Course Code: BAT207**

L	T	P	Cr
3	0	0	3

Total hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Describe literary terms related to Prose.

2. Write and appreciate different types of Prose.
3. Analyze, interpret and critically evaluate a piece of literature.
4. Form an idea about the various stages in the development of English language.

Course Content

UNIT-I **11 hours**
Prescribed Texts:

A Choice of Short Stories eds. Shakti Batran and P. S. Sidhu.

UNIT-II **13 hours**

Terms pertaining to Prose:

1. Novel
2. Short story
3. Plot and character
4. Protagonist
5. Gothic novel
6. The Epistolary novel
7. Conflict
8. Biography
9. The Historical novel
10. The Regional novel
11. Episode
12. Adventure novel
13. The Picaresque Novel

UNIT-III **11 hours**

Wuthering Heights: Emily Bronte

UNIT-IV **10 hours**

Emma - Jane Austen

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Abrams, M.H. *A Glossary of Literary Terms*, Cengage Learning India, 2015.
- *Twentieth Century Reader's Guide to Literacy Terms*, OUP, 1997.
- Brontë, Emily, *Wuthering Heights*. Penguin Books, 2003.
- Austen, Jane. *Emma*. Penguin Books, 2003.

Course Title: *coxvINpMjwbl*

L	T	P	Cr.
3	0	0	3

Course Code: BAT208

Total hours: 45

Course Outcomes: On successful completion of this course, the students will be able to

1. *pMjwblkhwxlbwryjwxkwrlidyxw[*
2. *pMjwblivAwkrndyq`qWbwryjwxkwrlidyxw[*
3. *pMjwblDunlivauNqbwryjwxkwrlpRdwnkrnw[*
4. *pMjwblBwSwdyigAwnivcvwDwkrnw[*

Course Content

Bwg-a

10 hours

1. *pMjwblkhwxlnwlmuflljwx-pCwx [*

Bwg-A

15 hours

2. *kQwsMswrsMpwdk:jsivMdrisMG,gurmuKisMG,
pbllkySnibauropMjwblXUnlvristl, pitAwlw [*

Bwg-e

10 hours

3. *ਭਾਸ਼ਾ ਦਾ nwmkrn, ipCokVAqyinkws[*
4. *pMjwblBwSwdwivkws (m`DkwLAqyAwDuinkXug)[*
5. *pMjwblBwSwdlswrQkqw, ieiqhwsAqyswihqkivrwsq[*

Bwg-s

10 hours

6. *pMjwblDunlivauNq*
7. *ਗੁਰਮੁੱਖੀ ਲਿੱਪੀ ਦੀ ਬਣਤਰ*

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

pusqksUcl

- rqnismGj`gl (sMpwdk): pMjwblswihqdw`Dkwllnieiqhws, pbllySnibauropMjwblXUnlvristl, pitAwlw[
- jsivMdrismG, gurmuKismG (sMpwdk), kQwsMswr, pbllySnibauropMjwblXUnlvristl, pitAwlw[
- joigMdrismGpuAwr, bldyvisMGclmw, suKivMdrismGsmGwAqvydAgnlhoqrl, pMjwblBwSwdwivAwkrn (Bwg-dUjw),pMjwblBwSwAkwdml, jIMDr[

Course Title: हिन्दीव्याकरण एवंविधागतपरिचय

L	T	P	Cr.
3	0	0	3

Course Code: BAT209**Total Hours:** 45**Course Learning Outcomes: On successful completion of this course, the students will be able to**

1. छात्रों को हिंदी की विभिन्न विधाओं का ज्ञान होगा
2. छात्रों को हिंदी व्याकरण का सूक्ष्म ज्ञान होगा
3. निबंध लेखन द्वारा उनकी कल्पनात्मक एवं सृजनात्मक शक्तियों का विकास होगा
4. छात्रोंकीहिंदीशब्दावलीकाविकासहोगा

Course Content

भाग- क

12 ीवनते

विधागतपरिचय :

- क. एकांकी : उत्पत्ति I, स्वरूप, परिभाषा एवंतत्त्व
 ख. निबन्ध : स्वरूप, भेद, परिभाषा एवंतत्त्व
 ग. उपन्यास : परिभाषा, भेद एवंतत्त्व
 घ. कहानी : परिभाषा एवंतत्त्व

भाग- ख

11 ीवनते

अलंकार : अनुप्रास, श्लेष्, वक्रोक्ति, उपमा, रूपक

मुहावरे एवंलोकोक्तियां, शुद्ध-अशुद्ध, पर्यायवाची, विपरितार्थक शब्द, अनेकार्थक शब्द, प्रत्यय

भाग- ग 10
 ीवनते

संज्ञा, सर्वनाम, विशेषण, क्रिया, क्रिया-विशेषण (केवल परिभाषा एवं भेद उदाहरण सहित)
 अपठित पद्यांश

भाग- घ 12
 ीवनते

निबन्ध
 प्रार्थनापत्र

Transaction Mode: Lecture, Group Discussion, Quiz, Open Talk, Self-study,
 Assignment

सहायक पुस्तकें :

- भावुक कृष्ण) डॉ (., 'हिंदी भाषा का इतिहास', अशोक प्रकाशन, दिल्ली, 1997
- तिवारी भोलनाथ) डॉ (., 'हिंदी भाषा', किताब महल, इलाहाबाद, प्रथम संस्करण, 1966
- तिवारी भोलनाथ) डॉ (., 'भाषा विज्ञान', किताब महल, इलाहाबाद, प्रथम संस्करण, 1951
- शास्त्री रामचंद्र वर्मा) डॉ (. एवं डॉ . माया अग्रवाल, भाषा-विज्ञान एवं हिंदी भाषा, अनीता प्रकाशन, दिल्ली, 1994
- बाहरी हरदेव) डॉ (., 'हिंदी : उद्भव, विकास और रूप', किताब महल, इलाहाबाद, प्रथम संस्करण 1965

Course Title: Indian Economy

Course Code: BAT210

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.
2. Measure the problems prospects of cottage and small scale industries, and Industrial sicknesses.
3. Aware about importance of agriculture in Indian economy and land reforms.
4. Analyse Planning Programmes of the Indian Economy.

Course Content

UNIT-I

09 hours

Indian Economy and Agriculture Sector: Structure of the Indian Economy India: developing economy – features. National Income of India – estimates, trends, growth, structure and limitations. Agriculture: Nature and importance: Trends and factors determining in agricultural production and productivity; green revolution; Problems and prospects. Land Reforms. Agricultural marketing and Agricultural Price policy in agriculture. Agriculture and WTO.

UNIT-II

12 hours

Industry Sector: Industry: Industrial development and policies since independence; Industrial Policy of 1991; Industrial licensing policy – MRTP Act, FERA and FEMA. Growth and problems of small-scale industries; Role of public sector enterprises in India's industrialization – recent policy towards public sector. Recent Government policies; Skill India, Start-up and Make in India.

UNIT-III

11 hours

External Sector: Role of foreign trade: Trends in exports and imports; Composition and direction of India's foreign trade. Balance of payments crisis and the new economic reforms –Export promotion measures and the new trade policies. Foreign capital – FDI, aid; Multinational corporations (MNCs) and their impact on Indian Economy. SWADESHI and its relevance. **UNIT-IV**

13 hours

Indian Economic Problems: Broad demographic features – Population size and growth rates, sex composition; rural urban migration, occupational distribution; Problem of overpopulation; Population policy in India. Current Challenges of Poverty in India: definition and estimate, poverty line, poverty alleviation programs after 1991. Inequality: income and regional inequality – causes and corrective measures adopted in India. Unemployment in India:

measuring Unemployment, magnitude – causes & consequences – major employment programmes after 1991– structure & emerging trends in employment. Environmental challenges in India: Land, water and air.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Dhar, P K (1999). *Indian Economy*, Kalyani Publishers, Ludhiana.
- Aggarwal, A N. *Indian Economy*, Wiley Eastern Ltd.
- Datt, R & Sundram, K P M. *Indian Economy*, S. Chand & Co. (Latest Edition).
- Soni, R N. *Leading Issues in Agriculture Economics*, Sohan Lal Nagin Chand & Sons.
- Ghosh, A (Trans. Avtar Narinder Singh) : *Bhartiy Arth Vivstha*, Punjabi University, Patiala.
- Singh, C G. *Bharti Arth Shastar*, Punjabi University, Patiala.
- Misra, S K & Puri, V K (English & Hindi Medium). *Indian Economy*, Himalya Publishing House, Mumbai (Latest Edition).
- Tandon, B B & Tandon, K K (1998). *Indian Economy*, Tata McGraw Hills Pub. Co., New Delhi.

Course Title: Principles of Sociology

Course Code: BAT211

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Comprehend the concept of social interaction.
2. Recognize the associative and dis-associative social process.
3. Identify and differentiate the characteristics of primary, secondary and reference social groups.

4. Analyze the importance social institutions, social control and social deviance.

Course Content

UNIT-I 12 hours

Social Interaction and Social Processes: Concepts of social interaction and social processes, Types of social processes: Integrative and Disintegrative (Cooperation, Accommodation, Assimilation, Competition and Conflict).

UNIT-II 11 hours

Social Groups: Definition, characteristics, Types: (Primary and secondary, in group and out-group).

UNIT-III 12 hours

Social Institution: Marriage (Definition and functions, changing patterns), Family: (Definition and functions, changing patterns), Emerging Crisis in Social Relationships, Religion (Definition and functions).

UNIT-IV 10 hours

Social Control: Meaning and agencies of social control, Social Deviance: Meaning, factors.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration.

Text Books

- Rao, Shankar C.N.2005.*Sociology Part-I*.Jalandhar: New Academic Publishing House.
- Giddens, Anthony .2001.*Sociology*. London: Polity.
- Haralambos, M .1980.*Sociology: Themes and Perspective*.London: Oxford University Press

Suggested Readings

- Davis, Kingsley.1978. *Human Society*. London: Mac Millan Company.
- Jayaram, N.1988. *Introductory Sociology*. Madras: Macmillan India.

- Johnson, Harry, M. 1980. *A Systematic introduction*. Delhi: Allied Publishers.
- Mair, Lucy.1972. *An Introduction to Social Anthropology*. London: Oxford Clarendon Press.
- Mujamdar, D.N. & Madam T.N. 1956. *An Introduction to Social Anthropology*. Bombay: Asian Publishing House.
- Schaefer, Richard T. 1999. *Sociology*. New Delhi: Tata Mc Graw-Hill.
- Srinivas, M.N. 1995. *Social change in Modern India*. New Delhi: Orient Longman.
- Srivastava, A.R.N. 2005. *Essentials of Cultural Anthropology*, New Delhi: Prentice Hall of India.

Course Title: Political Science-II

L	T	P	Cr
3	0	0	3

Course Code: BAT212**Total Hours: 45****Course Learning Outcomes: On successful completion of this course, the students will be able to**

1. Discuss universal declaration of human rights and its importance in social life.
2. Justify the concepts that have shaped politics, including Equality, Liberty, Individuality, Democracy and Justice.
3. Compare Political Culture with Political Socialization.
4. Categorize fundamental rights, duties and directive principle of state policy in social life.

Course Content**UNIT-I****13 hours**

Political System: Meaning, characteristics and Scope

Political Culture: Meaning, Characteristics and Types.

Political Socialization: Meaning, characteristics & agencies.

UNIT-II**12 hours**

Rights & Duties: Meaning, types & its relationship
Universal Declaration of Human Rights and its classification.
Democracy: Meaning, features, & types.

UNIT-III

11 hours

Liberty: Meaning, types and its safeguards.
Equality: Meaning, types, relationship between liberty and equality.

UNIT-IV

09 hours

Justice: meaning and its various dimensions.
Social Change: Meaning and its various dimensions and Theories.

Transaction Mode: Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

Suggested Readings

- Baker, Donald G.(1971). "Political Socialization: Parameters & Predispositions.
- Meyer, David S, and Deana A. Rohlinger.(2012). "Big books and social movements: A myth of ideas and social change." Social problems .
- Lefort, Claude, and David Macey.(1988). Democracy and political theory. Vol. 225. Cambridge: Polity Press.
- Cohen, Jean L., and Andrew Arato.(1994). Civil society and political theory. MIT press.
- Carnoy, Martin.(2014). The state and political theory. Princeton university press.
- Robert A. Dahl.(1972).Modern Political Analysis, Prentice Hall, New Delhi.
- Davies & Lewis.(1972).Models of Political Systems, Vikas, New Delhi.
- Stephen L. Wasby.(1972).Political Science: The Discipline and its Dimensions, Scientific Book Agency.
- B.L. Fadia.(1984). State Politics in India, Vol. II, New Delhi, Radint Publisher.
- Laxmikant, M.(2013). Indian Polity, Mchraw Hill Education, New Delhi.
- R. Kothari.(1988).State against Democracy: In Search of Human Governance, Delhi, Ajantha.

- R. Kothari .(1970). Politics in India, New Delhi, Orient Longman.
- Nirja G., P. B. Mehta.(2010).The Oxford Companies to Politics in India, Oxford University Press.
- M.V. Pylee .(1977). Constitutional Government in India, Bombay, Asia Publishing House.
- M.V. Pylee.(1998).An Introduction to the Constitution of India, New Delhi, Vikas

Course Title: History of Medieval India

Course Code: BAT213

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Understand the various concepts regarding Political and Social customs of Ancient Period
2. Understand the relationship of India with other kingdoms
3. Enhance the knowledge of the learner about Historical structure of Ancient India.
4. Understand the various concepts, functions & working System in Ancient India.

Course Content

UNIT-I

09 hours

Political and Social conditions of India up to 1000 A.D.

Invasion of Mahmud Ghazni and Muhammad Ghori causes and their impact.

UNIT-II

12 hours

Slave Dynasty- Consolidation of the Slave Dynasties with special reference to Qutb u- Din Aibak to Balban. Khalji and Tughlaq Dynasties.

UNIT-III

11 hours

Establishment of Mughals :First battle of Panipat: Establishment of Mughal rule.

The Akbar: Mughal Administration and their Policies.

UNIT--IV**13 hours**

Aurangazeb and his Deccan Polices.

Maps: (a) Important places in South India: Amaravati, Kalyani, Kanchipuram, thanjaur, Nagapottinam, GangaikondaCholapuram, Vengal, Kalinga, Vangaderam, Badami, Patapi, Vangai, Manyakheta, Ellora. (b) South dynasties (c) Mughal Empire.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Athar Ali, Mughal Nability
- Smith, V.A. Akbar the great Mughal
- Percival Spear, Oxford History of India.
- MisraBB, The Central Administration of the East India Company
- Sarkar, J.N., Fall of the Mughal Empire
- MuzzafarAlam The crisis of empire in Mughal North India Conp, Delhi, 1986
- Mann, M.S. History of Ancient India (Raj Publishers, Jalandhar)
- Arora, A.C., History of Ancient India (Pardeep publications, Jalandhar)
- Subharwal, S.P, History of Ancient India (K. Duggal& Co.)
- Basham, A.L., Wonder That Was India, Calcutta: Rupa, 1992.
- Goyal, S.R., A History of Indian Buddhism, Meerut: KasumanjliPrakashan, 1987.
- Habib, Irfan, VivekanandJha, Mauryan India, Delhi: Tulika Books, 2004.
- Jha, D.N. Ancient Indian an Historical Outline, Delhi: Manohar (2nd Rev. ed.), 2005.
- Ray Chaudhary, H.C. (re. ed.) by B.N. Mukherjee, Political History of Ancient India, Calcutta: Oxford University Press, 1996.
- Sastri, K.A. Nilakanta, A History of South India, 2nd ed., Oxford University Press, 1958.
- Sastri, K.A. Nilakanta, History of South India, from pre-historic times to the fall of vijaynagar, (4th ed.), Delhi: Oxford Unversity Press, 1995.
- Levin-Bongard, G.M., Mauryan India, Delhi: MunshiramManoharlal, 1966.
- Maity, S.K., The Imperial Gupta and their times, Delhi; Motilal Banarsidas, 1975.

- Ratnagar, Shereen Enquiries into the Political Organization of Harappan Society, Pune: Ravish, 1991.
- Thapar, Romila, Asoka and the decline of the Mauryas, Delhi: Oxford University Press, 1997. 45hours

Course Title: Sikh Religion

Course Code: BAT214

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

- 1 Learn that Sikhism is based on the spiritual teachings of Guru Nanak, the first Guru (1469-1539), and the nine Sikh gurus those succeeded him.
- 2 Understand that the Tenth Guru, Guru Gobind Singh named the Sikh scripture Guru Granth Sahib as his successor, terminating the line of human Gurus and making the scripture the eternal, religious spiritual guide for Sikhs.
- 3 Understand the fundamental beliefs of Sikhism, articulated in the sacred scripture Guru Granth Sahib.
- 4 Learn that the principal sikh scripture is the Adi Granth (First Scripture), more commonly called the Guru Granth Sahib.

Course Content

UNIT- I

09hours

1. *is`KDrmdwAwrMB: smkwllnpRsiQqlAW*
2. *gurUnwnkdyv: jlvnAqyis~iKAwwW*
3. *gurUAMgddyvdwXogdwn: ਸਿੱਖ ਧਰਮ ਦੇ ਪ੍ਰਚਾਰ ਅਤੇ ਪਸਾਰ ਵਿੱਚ ਯੋਗਦਾਨ*

UNIT- II

12hours

4. *gurU Amr dws: smwjsuDwrdykwrj*
5. *gurUrwm dws: AMimRqsrdsrovrdIKudwelqymsMdpRbMD*
6. *gurUARjndyv: ShwdqdykwrnAqysmkwllpRsiQqlAW*

UNIT- III

11hours

7. gurUhirgoibMdswhb: mlrl-plrldwisDWqqyAkwlq^qdlisQwpmw

8. gurUqygbhwdr: ਵਿਸ਼ਵ ਧਰਮ ਚਿੰਤਨ ਅਤੇ ਸਿੱਖ ਸ਼ਹਾਦਤ

9. gurUgoibMdisMG: Kwlsydlswjxw

UNIT- IV

13hours

10. bwbwbMdwisMGbhwdr: jlvn, ij`qWqyShwdq

11. is`KimsIW: ieiqhwskjwx-pCwx, gurmqwqysrb`qKwlsW

12. mhwrwjwrjxlqisMG: jlvnqypRwpqlAW

ਟ੍ਰਾਂਜੈਕਸ਼ਨ ਮੋਡ: ਲੈਕਚਰ, ਸਮੱਸਿਆ ਹੱਲ, ਮਿਸ਼ਰਤ ਸਿਖਲਾਈ, ਚਰਚਾ ਅਤੇ ਪ੍ਰਦਰਸ਼ਨ, ਅਤੇ ਕੇਸ ਅਧਿਐਨ।

shwiekpusqkW

- is~Kieiqhws, fw. gMfwisMG, ipRM. qyjwiMsMG, pMjwbIXUnlvrstl, pitAwlw[
- is`KivcwrDwrw, pRo.pRIqmismG, SRomxlgurduAwrwpRbMDkkmytl, AMimRqsr[
- bwbwbMdwisMG, fw. gMfwisMG, pMjwbIXUnlvrstl, pitAwlw[
- is`KimsIWqysrdwrGrwxy, sohxismGslql
- mhwrwjwrjxlqisMG, bwbwpRymismGhoql

Course Title: Math-11 (Calculus and Differential Equations)

L	T	P	Cr.
3	0	0	3

Course Code: BA215

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Recognize and determine infinite limits and limits at infinity and interpret with respect to asymptotic behavior.
2. Determine the existence of, estimate numerically and graphically, and find algebraically the limits of functions.

3. Familiarize with various methods of solving differential equations of first and second order and to have qualitative applications

4. Solve various working rule for finding solution of linear differential equations with constant coefficients, homogeneous linear equations or Cauchy-Euler equations, linear differential equations of second order with variable coefficients, initial and boundary value problems etc. and model problems in nature using ordinary differential equations.

UNIT-I

10 hours

Derivative of a function, the derivative as a function, derivatives of a polynomial and exponential function, the product and quotient rule, rate of change in social and natural science. Derivatives of Trigonometric, Logarithmic and hyperbolic functions.

Successive differentiation, Asymptotes, Multiple points, Tests for concavity and convexity, points of inflexion, Tracing of curves in Cartesian, Curvature, radius of curvature, centre of curvature.

UNIT-II

12 hours

Integration as inverse process of differentiation Integration of a variety of functions by substitution, by partial fractions and by parts. Evaluation of simple integrals of trigonometric, exponential and Logarithmic function. Definite integrals as a limit of a sum, Fundamental Theorem of Calculus (without proof) Basic properties of definite integrals and evaluation of definite integrals. Double and Triple Integral.

UNIT-III

11 hours

Introduction of Differential equations, Order and Degree of Differential Equations, Complete primitive (general solution, particular solution and singular solutions), Existence and uniqueness of the solution $dy/dx = f(x,y)$.

Differential equations of first order and first degree, Separation of variables, Homogeneous linear Equations, Exact Equations, Integrating Factor, Linear Equation, Equation of First order but not of first degree,

UNIT-IV**12 hours**

Linear differential equations with constant coefficients, Complementary function, Particular integral, Working rule for finding solution of linear differential equations with constant coefficients, Homogeneous linear equations or Cauchy-Euler equations

Simultaneous differential equations, Differential equations of the form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$ where P, Q, R are functions of x, y, z. Exact differential equations,

Transaction Mode- Video Based Teaching, Collaborative teaching, Group Discussion, ted talks, E team Teaching, Flipped Teaching, Quiz, Open talk, Case analysis.

Text Books

- Rudin, W., Principles of Mathematical Analysis, McGraw-Hill (2013).
- Malik, S.C. and Arora, S., Mathematical Analysis, Wiley Eastern (2010).

Reference Books

- Simmons G. F., Introduction to Topology and Modern Analysis, Tata McGraw Hill (2008).
- Jain, P. K., Ahmad Khalil, Metric Spaces, Alpha Science Publishers (2004).
- G.F. Simmons, (2002), *Differential Equations with Application and Historical Notes*, Tata –McGraw Hill.
- B. Rai, D.P. Choudhary & H. J. Freedman, (2002), A Course of Ordinary Differential Equations, Narosa.
- Ian N. Snedden, (2013), *Elements of Partial Differential Equations*, Dover Publication.
- L.E. Elsgolts, (1970), *Differential Equation and Calculus of variations*, University Press of the Pacific.
- M. D. Raisinghania, (2018), *Ordinary and Partial Differential Equations*, S Chand.
- J.B. Fraleigh, (2003), *A first course in Abstract Algebra*, Addison-wiley.
- Joseph A Gallian, Contemporary Abstract Algebra, Brooks/Cole Cengage Learning, 2016
- I. N. Herstein, (2006), *Topics in Algebra*, John Wiley & Sons.
- Thomas W Hungerford, (1990), *Abstract Algebra – An Introduction*, Saunders College Publishing.
- Suggested digital platform: NPTEL/SWAYAM/MOOCs.
- Suggested digital platform: NPTEL/SWAYAM/MOOCs.

Website/ Links/ Online portal/ICT:

- <https://www.britannica.com/science/calculus-mathematics>
- <https://www.khanacademy.org/math/calculus-1>

Course Title: Physical Education

Course Code: BAT216

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Identify the anatomical and biomechanical bases of human movement
2. Gain the knowledge of techniques of first aid
3. Understand the importance of psychology in physical education
4. Recognize the influence of heredity and environment on child development

Course Content

THEORY

UNIT-I

12 hours

Cell: - Structure and function of different part of Cell.

Skeletal System:-Nomenclature, structure and function of bones of axial and appendicular Skelton and classification of bone.

Joints: - Meaning, importance, structure and movement at different joints.

UNIT-II

10 hours

Muscles: - Structure and function of different types of muscles, Contraction of Skeletal muscles (eccentric, concentric and static).

Circulatory system: - Structure and function of heart, arteries, veins and capillaries and mechanism of blood circulation

Drug Abuse: - Causes symptoms, bad effects and control of Alcohol, Smoking and Drugs addiction.

UNIT-III

13 hours

Pollution: - Meaning, bad effects and remedial measures of Air, Water and Noise pollution.

Sports injuries: - Cause, symptoms, first aid, treatment and prevention of (Sprain. Strain, contusion, dislocation & fracture)

First Aid: - Introduction, Definition, Aim and Principles. Types & technique of first aid.

UNIT-IV

10 hours

Sports Psychology: - Introduction, Definition, Aim and Principles.

Heredity and environment: - Meaning, scope and effects of heredity and environment of growth and Development.

Classification of Age: - Chronological age, physiological age and anatomical age.

PRACTICAL

Middle Distance Running	8M (Any One Race)
Triple Jump	8M (Any One Style)
Discuss Throw	8M (Any One Style)
Kho-Kho, Table Tennis, Basketball	16M (Any One Game)

Suggested Readings

- Health, Physical Education & Sports Dr. G.S. Kang, Dr. Nishan Singh Deol
- General Science By S. Chanel
- Kamlesh, M.L. & Sangral M.S. Principles and History of Physical Education, 1977.
- Environmental Studies: V.K. Khosla, Mrs. Kanta Khosla, Dr. R. S. Rattan
- Environmental Education: Mrs. Saroj Sobti, Surjit Singh

Course Title: Sewing Techniques & Equipments Lab

Course Code: BAT217

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Learn about pattern of Tailor garments, in correct sequence of operations.
2. Understand designs of fabric, required to complete within a given frame of time.
3. Learn how to promote their various designs in fabric construction, boutiques field.
4. Understand how to apply ideas for the Design preparation and convey them verbally, visually and digitally.
5. Learn about application of shaping devices.

Course Content

UNIT-I

9 hours

Basic Hand Stitches:

Basting-even, uneven and diagonal, Tailor's tacks, Back stitch, Hemming- visible and invisible.

Application of Fasteners: Buttons and buttonholes, hooks and eyes, hammer ones.

UNIT-II

11 hours

Sewing Technology:

Exercise of machine's control on speed, paper exercises and fabric exercises.

Different types of seams and seam finishes.

Seams – Plain, French, run and fell, run and hem, slot, lap, piped, counter seam, counter hem, fringe.

UNIT-III

13 hours

Seam finishes– Overcast seam finish, double stitched finish, herringbone finished, edge stitched seam, bound seam finish, pinked seam.

Application of shaping devices:

Tucks – Plain, cross, shell, released, group.

Pleats - knife, box, inverted box, cartridge and kick.

UNIT-IV

12 hours

Gathers.
Necklines-Round, square, V shape etc.
Plackets continuous, 2-piece

Zips and Fasteners
Pockets patch, in-seam, patch with pleat, patch with flap.
Collars, sleeves
Yokes Construction of a baby frock

Transaction Mode: Group Discussions, Questions, Project Based Learning, Video Based Teaching

Suggested Readings

- Doongaji Shree & Pande Roshani,2004 *Desh, Basic Process & Clothing Construction*, Publisher Unique Education Books, Raj Parkashan, New Delhi.
- Lata Mullick Prem ,2011 *Garment Construction Skills*

Course Title: HUMAN HEALTH AND HYGINE

Course Code: BAT218

L	T	P	Cr.
2	0	2	3

45hours

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

5. Develop an understanding of health and personal hygiene
6. Provide the knowledge of food hygiene
7. Enabled to gain the knowledge of various methods to purify water from different resources
8. Gain the knowledge about causes, first aid/remedies for different diseases

Course Content

THEORY

UNIT-I

9 hours

Hygiene:

- a. Definition of hygiene.
- b. Definition of infection, sources, carrier and control
- c. Definition and types of immunity.

UNIT-II

11 hours

Food Hygiene:

- a. Definition
- b. Hygiene during preparation, service and storage of food.
- c. Food poisoning, causes and prevention.

UNIT-III

13 hours

Purification and storage of water for home.

UNIT-IV

12 hours

Causes and spread of following diseases:

- a. Caused by insects-malaria, dengue
- b. Conveyed by ingestion-enteric fever, cholera, dysentery and diarrhea.
- c. Spread by droplet infection, chicken pox, measles, mumps and tuberculosis.
- d. Sexually transmitted diseases – AIDS.

PRACTICAL

Measuring body temperature.

Measuring Blood Pressure, and pulse rate

First Aid Techniques for Injuries-Burns, Cuts, Sprains and Fractures, poisoning and Drowning.

First Aid Techniques for-Cardiac Problems, Choking, and Unconsciousness.

Suggested Readings

- Best & Taylor (1975): The living body, Bombay, Asia Publishing House.
- Best & Taylor (1970): Human Body: Its Anatomy & Physiology, London Chapman & Hall Ltd.
- Best & Taylor (1979): Physiological basis of medical practice, Baltimore, Williams & Wilkins Co.
- Amour F.E.D. (1961): Basic Physiology, London, University of Chicago Press.

Course Title: Music

Course Code: BAT219

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Studies about the compositional forms of Hindustani music.
2. Learn about the notation systems of Hindustani music.
3. Classification of Indian Musical Instruments.
4. Learn to write the practical composition according to the notation system.
5. Know the importance of Taal and Laya in instrument music.

Course Content

UNIT-I

12 hours

1. Historical Development of music in following periods
 - a) Ramayan Period
 - b) Mahabharat Period
2. Classification of Indian Musical Instruments.
3. Definition of the following in the context of Gurmat Sangeet: Raag, Mahla, Rahao, Ank.

UNIT-II

10 hours

1. Biographical sketches and contribution towards Indian Music of the following :
 - (a) Pt. Vishnu Digambar Paluskar
 - (b) Gujjar Ram Vasdev Ragi
2. One Shabad In Nirdharit Raga

UNIT-III

11 hours

3. Biographical Sketches and Contribution of the Following:

- b) Pt. Jasraj b) Ustad Amir Khan
 4. Elementary Knowledge of the following Ragas
 a) Darbari b) Bhairav

UNIT-IV**12 hours**

1. Importance of SahayakNad.
2. Methods of formation of 72 Thatas of Dakhani Music system of PanditVyakant Makhi.
3. Detailed Description and notation of prescribed Ragas:
 - b) VrindavaniSarang b) Asawari

Transaction Mode: Lecture, Problem Solving, Discussion, Demonstration**Suggested Readings**

- Dr.Davinder Kaur: (1 january 2017)*SangeetRoop*(Part-I)
- Dr. Premlata Sharma: (1 january2007)*Sangeet Manual*
- Dr. Yaspal Sharma: (1998)*Gayan Kalan*
- Dr.SumanLata: (1998)*Hindustani ShastrisangeetSidhantavamVyavhar*

Semester-III**Course Title: English****Course Code:****BAT301**

L	T	P	Cr
4	0	0	4

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Comprehend the prescribe prose pieces of English.
2. Present a commentary on the prose pieces.

3. Refer to the dictionary for meaning, usage, idioms and grammar.
4. Interact confidently in situations like debates, group discussions and seminars.

Course Content

UNIT-I

18 hours

Gleanings from Home and Abroad (Orient Black Swan)

- (i) 'A Talk on Advertising'- Harman Wouk
- (ii) 'Globalisation' -Joseph Stiglitz.
- (iii) 'Work Brings Solace' - A. P. J. Abdul Kalam
- (iv) 'The Night the Bed Fell' - James Thurber
- (v) 'Rising Tide of Urban Chaos'-Colin Legum
- (vi) 'What is Wrong with Indian Films'-Satyajit Ray
- (vii) 'More than 100 Million Women are Missing '-Amartya Sen
- (viii) 'I have a Dream' -Martin Luther King
- (ix) 'Why I want a Wife'-Judy Brady
- (x)'Universal Declaration of Human Rights'-Leah Levin

UNIT-II

17 hours

Texts Prescribed for Grammar Oxford Practice Grammar by John Eastwood
(Exercises 54 to 59 and 91 to 103)

UNIT-III

13 hours

Writing skills

- Applications: Job
- Blog Writing

UNIT-IV

12 hours

- (A) Vocabulary:
- Antonyms
 - Idioms used in illustrative sentences.

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Abrams, M.H. *A Glossary of Literacy Terms*, Cengage Learning India, 2015.
- *Twentieth Century Reader's Guide to Literacy Terms*, OUP, 1997.

Course Title: pMjwbl

L	T	P	Cr.
4	0	0	4

Course Code: BAT302

Total Hours: 60

Course Outcomes: On successful completion of this course, the students will be able to

1. pMjwblkhwxlbwryjwxkwrlDyxw[
2. pMjwblivAwkrndyq`qWbwryjwxkwrlDyxw[
3. pMjwblDunlivauNqbwryjwxkwrlpRdwnkrnw[
4. pMjwblBwSwdyigAwnivcvwDwkrnw[

Bwg-a
20 hours

1. kQwsMswrsMpwdk: jsivMdrisMG, gurmuKisMG,
pblIkySnibauropMjwblXUnlvristl, pitAwlw [

Bwg-A
15 hours

2. ਭਾਸ਼ਾ ਦਾ nwmkrn, ipCokVAqyinkws[
3. pMjwblBwSwdwivkws (m`DkwLAqyAwDuinkXug)[

Bwg-e
10 hours

4. pMjwblBwSwdlswrQkqw, ieiqhwsAqyswihqivrvwsq[

Bwg-s

15 hours

5. *pMjwblDunlivauNq*

6. ਗੁਰਮੁੱਖੀ ਲਿੱਪੀ ਦੀ ਬਣਤਰ

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

pusqksUcl

- *rqnisMGj`gl (sMpwdk): pMjwblswihqdwM`DkwlInieiqhws, pblIkySnibauropMjwblXUnlvristl, pitAwlw[*
- *jsivMdrisMG, gurmuKisMG (sMpwdk), kQwsMswr, pblIkySnibauropMjwblXUnlvristl, pitAwlw[*
- *joigMdrisMGpuAwr, bldyvisMGclmw, suKivMdrisMGsMGwAqyvydAgnlhoqrl, pMjwblBwSwdwivAwkrn (Bwg-dUjw),pMjwblBwSwAkwdml, jIMDr[*

Course Title: Punjab History & Culture

Course Code:

L	T	P	Cr
4	0	0	4

BAT303

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Enhance the knowledge of the learner about the History of Punjab.
2. Understand the various concepts in the Guru Period.
3. Provide information regarding Political, Social & Religious issues of during period.
4. Provide information the development of Sikhism.

Course Content

UNIT-I

18 hours

1. Political, Social and Religious. Condition of the Punjab; Late 15th and Early 16th Century.

UNIT-II

17 hours

2. Guru Nanak Dev's teachings and impact on society.
3. Development of Sikhism under Guru Angad, Guru Amar Das and Guru Ram Das.

UNIT-III

13 hours

4. Guru Arjan: Compilation of AdiGranth, Language, Script, Arrangement of Material, Contents and Significance.
5. Martyrdom of Guru Arjan: Causes and Impact

UNIT-IV

12 hours

6. Guru Hargobind: Organizational changes and their Impact.
7. Development of Sikhism: Guru Har Rai Ji and Guru Harkrishan Ji.

Course Title: Archives and Museums

Course Code: BAT304

L	T	P	Cr.
0	0	4	2

Total Hours: 30

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past.
2. This course introduces learners Museums and archives are among the most important such repositories and this course explains their significance and how they work.
3. Students will be encouraged to undertake collection, documentation and exhibition of such materials in their localities and colleges.
4. Visit to Archives and Museum are an integral part of the course.
5. This course will encourage skill development.

Course Content

UNIT-I

7 hours

Definition and history of development (with special reference to India)

UNIT-II **7 hours**

Types of archives and museums

UNIT-III **7 hours**

Museum Presentation and Exhibition

UNIT-IV **8 hours**

Museums, Archives and Society

Transaction Mode: Lecture, Problem Solving, Discussion, Demonstration

Text Books

- Sengupta, S. Experiencing History through Archives. Delhi: MunshiramManoharlal, 2004.
- Guha, Thakurta, Tapati, Monuments, Objects, Histories: Institution of Art in Colonial India, New York, 2004
- Houdhary, R.D. Museums of India and their maladies, Calcutta, 1988
- Nair, S.M. Bio-Deterioration of Museum Materials, 2011

Course Title: Listening and Speaking Skills

Course Code: BAT305

L	T	P	Cr
1	0	0	1

Total Hours: 15

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Comprehend the concept of Listening and Speaking in English.
2. Explore the benefits and barriers of Effective Listening.
3. Acquaint with Speech sounds and Articulatory system
4. Differentiate between Formal and Informal Communication.

Course Content

UNIT-I **4 hours**

- Listening: (i) Concept (Active, Passive, Interpretive, Accent) Active Listening- an Effective Listening Skill
- Difference between hearing and listening

UNIT-II**4hours**

Principles of effective listening

Purpose of Listening

Listening to Conversation (Formal and Informal)

Benefits of Effective Listening

Barriers to Listening

UNIT-III**3hours**

- Speaking Skills- Introduction, principals of effective speaking (stress, intonation, assertion, exclamation, emphasis)
- International Phonetic Alphabet(IPA) Symbols
- Spelling and Pronunciation

UNIT-IV**4hours**

Public Speaking skill: (Preparation, vocal control, time management and handling questions)

- Intrapersonal and Interpersonal Communication: Group and mass communication, Network communication

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.**Suggested Readings**

- Carnegie, Dale. The Quick and Easy Way to Effective Speaking Pocket Books, 1977.
- Adair, John. *Effective Communication*. Pan Macmillan Ltd.,2003.
- Hasson, Gill. Brilliant Communication Skills. Great Britain: Pearson Education, 2012.

Course Title: English literature**Course Code:****BAT306**

L	T	P	Cr
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Understand the terms related to English Drama.
2. Have a concept of the trends and movements in English literature.
3. Identify, analyze, interpret and describe the critical ideas, values and themes that appear in literary and cultural texts.
4. Develop critical thinking.

Course Content

UNIT-I **12 hours** **Important Concepts pertaining to Drama**

The following terms will have to be studied:

1. Definition and Essence
2. Drama vs. Novel
3. Drama and Theatre
4. Dramatic action
5. Structure
6. Characterization
7. Dialogue
8. Stage Directions
9. Dramatic Conventions
10. Important terms pertaining to drama and stage:
 - Comic Relief
 - Pathos
 - Aside
 - Soliloquy

UNIT-II **12 hours**

History of English Literature from Chaucer to the Eighteenth Century & Important Trends and Movements in these periods:

- Renaissance and Reformation
- Origin and Rise of Drama in English
- Metaphysical Poetry
- Chief Characteristics of the Neo-Classical Literature.
- Rise of the Novel
- Restoration Comedy

UNIT-III **11 hours**

Important Texts of Chaucer to the Eighteenth-Century period:

- *Pardoner's Tale*
- *Lycidas*

- *Mac Flecknoe*
- *Epistle to Dr Arbuthnot*
- *Pamela*

UNIT-IV**10 hours**

William Shakespeare: Macbeth

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.**Suggested Readings**

- Abrams, M.H. *A Glossary of Literacy Terms*, Cengage Learning India, 2015.
- *Twentieth Century Reader's Guide to Literacy Terms*, OUP, 1997.
- Shakespeare, William. *Macbeth*. Wordsworth Classics, 1992.

Course Title: *coxvINpMjwbl***Course Code:** BAT307

L	T	P	Cr.
3	0	0	3

Total Hours:**45****Course Outcomes: On successful completion of this course, the students will be able to**

1. *pMjwblkhwxlbwryjwxkwrlidyxw[*
2. *pMjwblivAwkrndyq`qWbwryjwxkwrlidyxw[*
3. *pMjwblDunlivauNqbwryjwxkwrlpRdwnkrnw[*
4. *pMjwblBwSwdyigAwnivcvwDwkrnw[*

Bwg-a
hours**5**

1. *pMjwblkhwxlnwljwx-pCwx*

Bwg-A
15 hours

2. *kQwlok (khwxlsMgiRh) sMpwdq. fw. jsivMdrisMG[*

Bwg-e**15 hours**

3. pMjwblswihqdwieiqhws (1700-1850)

Bwg-s**hours****10**

4. swihqdyrUp: (ik`sw, kwPI, vwr, jMgnwmwAqySlok)[

Transaction Mode

Lecture, Problem Solving, blended learning, Discussion

ਪੁਸਤਕ ਸੂਚੀ

- ਜਗਬੀਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ(ਆਦਿ ਕਾਲ ਤੇ ਭਗਤੀ ਕਾਲ) ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ ਅੰਮ੍ਰਿਤਸਰ
- ਪਰਮਿੰਦਰ ਸਿੰਘ, ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ ਅਤੇ ਗੋਬਿੰਦ ਸਿੰਘ ਲਾਂਬਾ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉਤਪਤੀ ਤੇ ਵਿਕਾਸ, ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ ਲੁਧਿਆਣਾ।
- ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ, ਸਮੀਖਿਆ ਪ੍ਰਣਾਲੀਆਂ, ਪੰਜਾਬ ਸਟੇਟ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ।
- ਹਰਭਜਨ ਸਿੰਘ ਭਾਟੀਆਂ ਤੇ ਬਿਕਰਮ ਸਿੰਘ ਘੁੰਮਣ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਇਤਿਹਾਸਕਾਰੀ(ਭਾਗ ਪਹਿਲਾ ਅਤੇ ਦੂਜਾ), ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ ਅੰਮ੍ਰਿਤਸਰ

Course Title ॠ हिन्दीसाहित्यसुधा**Course Code: BAT308**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. छात्रों को रीतिकाल के नामकरण , परिस्थितियों एवं प्रवृत्तियोंकी जानकारीहोगी
2. उषा प्रियवंदाद्वारा रचित पचपन खम्भे लाल दीवार उपन्यास की जानकारी होगी

3. जयशंकर प्रसादद्वारा रचित प्रतिनिधि कहानियों के माध्यम से समीक्षात्मक दृष्टिकोण का विकास होगा
4. उनकी गद्य और पद्य में दिलचस्पी पैदा होगी

Course Content

Bwg-k **12**
hours

ihNdIswihEX kw eiqhs (Bi#qkwl एवं rIiqkwl : nwmkrx,
piriáQiqXo<Ev<pRv÷iqXW (

Bwg-K
11 hours

rIiqsOrB (s<pwdk) fw·rwmsjnpw&fyX, p<jwbIivÜvivDwlXfwrwpRkwiSq
(kyvlcwrkiv: ibhwrI, BU†x, rsKwn, gu} goibNd is<h jI)

Bwg-g **10**
hours

`pRiqiniDkhwinXo<' jXS<krpRswd (pRQmpWckhwinXw<)
rwjpwlpRkwSnidØlI **Bwg-G**

12 hours

,†w ipRXv<dwfwrwricq `pÇcpn K<By lwldIvwry<, rwjpwlpRkwSnidØlI

Transaction Mode

Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

shwXkpuáqky

- द्विवेदी, आचार्य हजारी प्रसाद, कबीर, राजकमल प्रकाशन, दिल्ली 1906
- तुलसीदास, रामचरित मानस, गीता प्रेस, गोरखपुर 1995
- जायसी. मालिक मोहम्मद, पद्यावत, राजकमल प्रकाशन, दिल्ली 1964
- सिंह, श्याम सुन्दर, कबीर ग्रंथावली, राजकमल प्रकाशन, दिल्ली 1989
- सिंह, भानु उदय, तुलसीदास, राजकमल प्रकाशन, दिल्ली 1978
- साही, विजयदेव नारायण, जायसी, वाणी प्रकाशन, दिल्ली 1976
- रघुवंश, जायसी एक नयी दृष्टि, राजकमल प्रकाशन, दिल्ली 1994

Course Title: Macro Economics**Course Code: BAT309**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Identifying the basic concepts and theories of Macro Economics.
2. Describe classical theory of employment and Keynes objection to the classical theory.
3. Judging the role of fiscal policy and monetary policy in a Developing Economy.
4. Identify the phases of the business cycle and the problems caused by cyclical fluctuations in the market economy.

Course Content

UNIT-I**09 hours**

National Income and Classical System: Basic concepts of National Income accounting. The circular flow. Concepts of GNP, GDP, NNP, and NDP at market price and at factor cost. The measurement of National Income-Value Added Method and Expenditure Method. The problem of double counting. Basic Classical Macroeconomics; Say's Law of Market, The Classical Theory of Income and Employment determination.

UNIT-II**13 hours**

Keynesian System and Investment analysis: Keynesian Theory: Effective Demand, Aggregate Demand and Aggregate Supply Function. Consumption Function: Factors influencing consumption function. Theory of Investment: Autonomous and induced investment. Investment Multiplier its relevance in emerging economies. Investment function: Concepts of Marginal productivity of capital, marginal efficiency of capital (MEC) and marginal efficiency of investment (MEI).

UNIT-III**11 hours**

Inflation and Business Cycle: Definitions of Inflation, causes and effects of Inflation, Types of Inflation- Demand pull vs. Cost push inflation; concept of stagflation; Concept of inflationary gap. Relationship between inflation and unemployment- The Philips curve-short and long run. Business Cycles-Meaning, types of the business cycle, features of the business cycle, phases of business cycle.

UNIT-IV**12 hours**

Macroeconomic Policies: Objectives of Macroeconomic Policies. Monetary Policy - Meaning, Instruments: Open Market Operations, Statutory Liquidity Ratio, Bank rate, variable reserve ratio, repo rate; Application in recession and inflation; Advantages and Limitations. Fiscal Policy - Meaning, Instruments: Government Budget Deficit and Deficit Financing-Indian illustration. Deficit financing, Application in recession and inflation; Advantages and Limitations.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Durnburg, T F and Dougal, M C (1976). *Macro Economics*, McGraw Hill, New York.
- Sharma, O P. (Latest Edition). *Macro Economics* (Punjabi Medium), Punjabi University, Patiala.
- Vaish, M C. (2010). *Macro Economic Theory*, Vikas Publishing House Pvt. Ltd.
- Harvey, J and Johnson, M. *Introduction to Macro Economics*, Mc Millan, London.
- Ackley, G (1985). *Macro Economic Theory*, Macmillan, New York.
- Baird, C W (1977). *Elements of Macro Economics*, West Publishing Company.

Course Title: Indian Society**Course Code: BAT310**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Comprehend the forms of social stratification and its positioning in society.
2. Familiarize with the theories of social stratification of Karl Marx and Kingsley Davis.
3. Elucidate the concepts of caste and class.
4. Develop an understanding on social institutions like marriage, family, kinship system.

Course Content

UNIT-I

12 hours

Social Stratification: Bases and forms, Theories of Social Stratification: (Karl Marx, Davis), Marriage and Family in India: Functions, Types and Changing patterns.

UNIT-II

11 hours

Class and Caste in India: Definition, features, bases, changing patterns and its difference, Gender: Meaning, Definition, and Social Construction of Gender, Gender Inequality, Features of Social Organization in India: Tribal, Rural and Urban, Changes in Organizations

UNIT-III

12 hours

Rural Sociology: Origin, Nature and scope, Land Reforms, Green Revolution, Using Social Impact, Assessment (SIA) in strengthening Rural Community

UNIT-IV

10 hours

Crisis in Rural Society: Rural Indebtedness: Meaning, Causes and Consequences ,Farmers' suicides: Meaning, Causes and Consequences , Village Panchayats, Panchayati Raj before and after 73rd Constitutional Amendment,

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration.

Text Books

- Giddens, Anthony (2001)*Sociology*, London: Polity.
- Haralambos, M (1980)*Sociology: Themes and Perspective*, London: Oxford University Press.
- Jayaram, N (1988)*Introductory Sociology*, Madras: Macmillan India.
- Johnson, Harry, M. (1980) *A Systematic introduction*, Delhi: Allied Publishers.
- Beteille, Andre.1996. Caste, Class and Power. New Delhi : Oxford University Press.
- Jammu, P. S. 1974.Changing Social Structure in Rural Punjab. New Delhi : Sterling Publishers.
- Doshi, S. L.1999.Rural Sociology. New Delhi : Rawat Publications.

Recommended Readings

- Davis, Kingsley (1978) *Human Society*, London: Mac Millan Company.
- Mair, Lucy (1972)*An Introduction to Social Anthropology*, London: Oxford Clarendon Press.
- Mujamdar, D.N. &MadamT.N. (1956) *An Introduction to Social Anthropology*, Bombay: Asian Publishing House.
- Srinivas, M.N. (1995) *Social change in Modern India*, New Delhi: Orient Longman.
- Srivastava, A.R.N. (2005)*Essentials of Cultural Anthropology*, New Delhi: Prentice Hall of India.
- Jammu, P. S.2007.Jaat Parnali Ate Punjabi Samaj. Jalandhar: Punjab Academy of Social Sciences, Language and Culture.

- Marriott, Mckim.1969. Village India: Studies in Little Community. (ed.) Chicago: University of Chicago Press.
- Punit, A. E.1978.Social Systems in Rural India. New Delhi: Sterling Publication.
- Sharma, K. L.1997.Rural Society in India. Jaipur: Rawat Publication.

Course Title: Political Science-III

L	T	P	Cr
3	0	0	3

Course Code: BAT311

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Explain the historical and modern concept of political system
2. Illustrate the concept of citizenship
3. Compare the various Govt Act.
4. Construct the composition of Indian constitution and working of the Constituent Assembly.

Course Content

UNIT-I	10 hours
1. Government of India Act 1919	
2. Government of India Act, 1935	
UNIT-II	12 hours
3. Basic features of India's Constitution	
4. Preamble and its importance	
5. Centre-State relations	
UNIT-III	11 hours
6. Human Rights: National Human Rights Commission and Punjab Human Rights Commission	
7. Fundamental Rights	
8. Fundamental Duties	
UNIT-IV	12 hours

9. President : Election, Powers, Position and Changing Role
10. Parliament : Composition, Powers and Role

Transaction Mode

- Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

Suggested Readings

- Assembly, Constituent.(1949).Constitution of India." Ministry of Law and Justice, editor. New Delhi, India: Ministry of Law and Justice, India .
- Bose, Durgadas.(1955). Commentary on the Constitution of India... Vol. 1. SC Sarkar,.
- Joshi, GulabhaiNaranji(1975)The Constitution of India. Delhi: Macmillan Company of India.
- Ghosh, Pratap Kumar.(1966).*The Constitution of India: How it Has Been Framed*. PrabhatPrakashan, .
- G. Austin .(1966).The Indian Constitution: Corner Stone of a Nation, Oxford, Oxford University Press.
- G. Austin.(2000).Working of a Democratic Constitution: The Indian Experience, Delhi, Oxford University Press.
- D.D. Basu.(1994).An Introduction to the Constitution of India, New Delhi, Prentice Hall.
- C.P. Bhambari.(1997).The Indian State fifty years, New Delhi, Sipra.
- P.Brass.(2003).Politics of India since Independence, Cambridge University Press.
- P. Brass.(1995).Ethnic Groups and the State, London, Croom Helm.
- P. Brass.(1974).Language, Religion and Politics in North India, London, Cambridge University Press.
- B.L. Fadia. (1984).State Politics in India, Vol. II, New Delhi, RadintPublisher.
- F.R. Frankel(1978)Indian Political Economy the Gradual Revolution, Oxford, Oxford University Press.
- R. Kothari .(1988).State against Democracy: In Search of Human Governance, Delhi, Ajantha.
- R. Kothari .(1970) .Politics in India, New Delhi, Orient Longman.
- R. Kothari .(1967).Party System and Election Studies, Bombay, Asia Publishing House.
- Iqbal Narain .(1967.)State Politics in India, Meerut, MeenakshiParkashan.

Course Title: National Movement**Course Code: BAT312**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Understand the causes and effects of National movements.
2. Understand the Social, Economic & Religious conditions of the Modern India.
3. Know the constitutional development during the freedom Movement.
4. Discuss the agitation against the British rule in India

Course Content

UNIT-I**09 hours**

Cause of the downfall of Mughal Empire.
Battles of Plassy and Buxer. Administrative and Social reforms of Cornwallis, Bentinck and Dalhousie.

UNIT-II**13 hours**

The uprising of 1857: Causes, results and causes of its failure.
Social-Culture Movements, Brahma Samaj, Arya Samaj, Singh Sabha Movement.

UNIT-III**11 hours**

British Economic Policy in India-Agriculture, Rural indebtedness.
Foundation of Indian National Congress: Phases of Moderate Politics; Rise of Extremism.

UNIT-IV**12 hours**

Emergence of Gandhi: Satyagraha Campaigns.

Maps:a) British India in 1805 A.D. b) British India in 1818 A.D.

c) Important Centres of the Revolt of 1857.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Roberts, P.E.,History of British India, PP. 129-190, 200-232, 300-309, 359-396, 582-657.
- IshwariPrashadand ,A History of Modern India, PP. 64-165, 206-274, 402-479.
- Subedar, S.K.
- Speer, P.,History of Modern India.
- Smith, V.A. , The Oxford History of India, PP. 465-590, 654-672, 705-739, 790-838.
- BisheswarPrashad, Bondage and Freedom
- Majumdar, R.C. and,British Paramountcy and Indian Renaissance, PP. 1-92,
- Others (eds)406-432, 467-554, 603 (BhartiyaVidyaBhawan Publications)
- Majumdar R.C. and Struggle for Freedom, PP. 17-34, 454-526,634-679, 721-782
- Others (eds.)
- Majumdar R.C. and ,An Advanced History of India
- Others (eds.)
- Thompson and Garret,Rise and Fulfilment of British Rule in India
- Sikri, S.L.,Constitutional History of India (English, Punjabi & Hindi)

Course Title: Sami Dharam**Course Code: BAT313**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

- 1 Learn that in the study of Semitic Religion there are two tendencies toward error the Western pragmatism and unsympathetic overtaxing of oriental Nature-symbols and vividly imaginative speech.
- 2 Learn that Semite used the figure of the rock in describing God, or poetically conceived of the storm-cloud as Yahweh's chariot.

3 Learn how an imaginative child of Nature should speak of the unseen Spiritual Power, except in the richest analogies of Nature.

4 Know that the second error is the tendency to treat the accretions acquired by contact with other nations as of the essence of Semitic religion.

Course Content

UNIT- I

09 hours

1. mu~FlIjwx-pCwx[
2. pYgMbrmUswwihbdwjlvn[
3. purwxwnymsMKypjwxkwrl[

UNIT- II

13 hours

4. elswel DrmdwAwrMBAqyivkws[
5. hzrqelswmslhjldwjlvn[
6. nvWnymsMKypjwxkwrl[

UNIT- III

11 hours

7. ieslwmDrmAwrMBAqyivkws[
8. hzrqmuhMmdswihbAqyauhnWdwimSn[
9. piv~qrkurAwndwieslwmDrmivcsQwn[

UNIT- IV

12 hours

10. AwrMBAqyivkws
11. jrqusqjldwjlvnqyis~iKAwrW[
12. jMdAvySqw:-sMKypjwxkwrl[

ਟ੍ਰਾਂਜੈਕਸ਼ਨ ਮੋਡ: ਲੈਕਚਰ, ਸਮੱਸਿਆ ਹੱਲ, ਮਿਸ਼ਰਤ ਸਿਖਲਾਈ, ਚਰਚਾ ਅਤੇ ਪ੍ਰਦਰਸ਼ਨ, ਅਤੇ ਕੇਸ ਅਧਿਐਨ।

shwiekpusqkw

- *sMswrdyDrm (fw. hrbMsisMG, fw. AYm. AYljosl, pblIkySnibauro, pMjwbIXUnlvrIsl, pitAwlw)*
- *elswelDrmiEkjwx- pCwx (krqwrCMdB~tlpblIkySnibauro, pMjwbIXUnlvrIsl, pitAwlw)*
- *The Religion of Islam (M. Ali Maulana)*
- *ivSvDrmsMgRih:-fw. AYm. AYljosl, pblIkySnibauro, pMjwbIXUnlvrIsl, pitAwlw)*

Course Title: Math-III (Linear Algebra/ Abstract Algebra)

Course Code: BAT314

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to:

1. Compute with the characteristic polynomial, eigen values, eigenvectors, and eigen spaces, as well as the geometric and the algebraic multiplicities of an eigen value and apply the basic diagonalization result.
2. Build the concrete structure of modern algebra with the basic concepts of Group, abelian group, subgroup etc. and with their properties.
3. Explore the concepts for understanding and analyzing more advanced topics like Conjugate subgroups, Invariant sub groups, Quotient group, Homomorphism and Isomorphism on groups etc. for strong grip on modern algebra.
4. Create an understanding of rings, various types of rings, characteristic of a ring, field, skew field etc. on the previous concepts of groups

UNIT-I

10 hours

Eigen values and Eigen vectors: Eigen vectors and Eigen values of a matrix, product of characteristic roots of a matrix and basic results on characteristic

roots, nature of the characteristic roots of Hermitian, skew-Hermitian, unitary and orthogonal matrices,
characteristic equation of a matrix, Cayley-Hamilton theorem and its use in finding inverse of a matrix.

UNIT-II**12 hours**

Definition of a group with examples and simple properties, Abelian group, Finite and infinite group, Order of a finite group, General properties of groups, Composition table for finite groups.

Order of an element of a group, Group homomorphism, Isomorphism on groups, theorems on subgroups, Coset decomposition, Cayley's theorem, Cyclic group, generating system of group.

UNIT-III**11 hours**

Normal subgroups, Simple group, Conjugate elements, Normalizer of an element of a group, Class equation of a group, Centre of a group, Conjugate subgroups, Invariant sub groups, Quotient group, Homomorphism and Isomorphism on groups, Kernel of a Homomorphism and related theorems.

UNIT-IV**12 hours**

Rings, Various types of rings, Rings with unity, Rings without zero divisors, Properties of rings, Sub rings. Ideals, Quotient rings, Principal ideals, Maximal ideals, Prime ideals, Principal ideal domains, Characteristic of a ring. Integral domain, Field, Skew field etc., Field of quotients of an integral domain, Embedding of an integral domain in a field, Factorization in an integral domain, Divisibility, Units, Associates, Prime and irreducible elements, Unique Factorisation Domain, Euclidean rings.

Transaction Mode: Video Based Teaching, Collaborative teaching, Group Discussion, ted talks, E team Teaching, Quiz.

Suggested Readings

1. Friedberg, Stephen H., Insel, Arnold J., & Spence, Lawrence E. (2003). *Linear Algebra* (4th ed.). Prentice-Hall of India Pvt. Ltd. New Delhi.
2. Hadley, G, (2002), *Linear Algebra*, Narosa Publishing House, New Delhi.
2. Hoffman and Kunze, (1972), *Linear Algebra*, Prentice Hall of India, New Delhi.
3. H. Helson, (1994), *Linear Algebra*, Hindustan Book Agency, New Delhi.
4. Dutta, K. B. (2004), *Matrix and Linear Algebra*, Prentice Hall of India.
5. S. Lang, (1987), *Linear Algebra*, Springer.
6. Suggested digital platform: NPTEL/SWAYAM/MOOCs.
7. J. B. Fraleigh, (2003), *A first course in Abstract Algebra*, Addison-Wiley.
8. I. N. Herstein, (2006), *Topics in Algebra*, John Wiley & Sons.
9. Thomas W Hungerford, (1990), *Abstract Algebra–An Introduction*, Saunders College Publishing.
10. Joseph A Gallian, (2016), *Contemporary Abstract Algebra*, Brooks/Cole Cengage Learning.
11. V. K. Khanna and S. K. Bhambri, (2014), *A course in Abstract Algebra*, Vikas Publishing House Pvt (Ltd).
12. Robert J.T Bell, (1923), *An Elementary Treatise on Coordinate Geometry of three dimensions*, Macmillan India Ltd.
13. Suggested digital platform: NPTEL/SWAYAM/MOOCs.
14. P.R. Vittal, (2013), *Analytical Geometry*, 2d & 3D, Pearson.
15. S.L. Loney, (2018), *The Elements of Coordinate Geometry*, McMillan and Company, London.
16. Suggested digital platform: NPTEL/SWAYAM/MOOCs.

Course Name: Physical Education

Course Code: BAT315

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Know about the laws of learning
2. Understand different methods of motivation
3. Know about remedial measures to control adolescent period
4. Understand the role of family, school and sports in socialization

Course Content

Theory

UNIT-I

12 hours

Psychology: - Importance in sports training and competition and relationship with physical education.

Learning: - Meaning, laws of learning, nature of motor learning, transfer of learning and learning curve.

Motivation: - Meaning, Types, Methods and importance in physical education and sports.

UNIT-II

10 hours

Play: - Meaning, theories, types and importance.

Psychological factors affecting sports performance: - Meaning and remedial measure of anxiety and aggression in sports.

Adolescent Period: - Meaning, Characteristics (Physical, Psychological and sociological) Remedial measures to control adolescent problems.

UNIT-III

13 hours

Childhood: - Meaning, and Characteristics of physical, mental psychological and social growth and development in childhood.

Sports relationship: - Role and importance of sports and economy, sports and politics.

Sports performance: - Causes and remedial measures of India's poor performance in Sports.

UNIT-IV

10 hours

Individual differences: - Meaning, importance and determination.

Socialization:- Meaning, characteristics and role of family, school and sports in socialization.

Integration: - Meaning, and importance of sports in national and international integration.

Practical

Long Distance Running	8M (Any One Race)
High Jump	8M (Any One Style)
Javelin Throw	8M (Any One Style)
Wrestling, Lawn Tennis, Handball	16M (Any One Game)

Suggested Readings

- Kang G. S. Deol N. S. – An introduction to Health and Physical Education 21st century Patiala 2008.
- Blair, Jones and Simpson: Educational Psychology, The Macmillan co, New York, 1962.
- Lindgren. H. E. Educational Psychology in the class Room, new delhi, John Wiley & sons, 1962.
- Whiting HTA : Reading in sports Psychology, Henry Kimpton Publisher London 1972.
- Dhaliwal A. S. Vidyak Manovidyan, Patiala, Punjabi University.
- Puni, A. T. Sports Psychology: An abridged translation by G. S. Sandhu, NIS Patiala, 1980.
- Suin, R.M. Psychology in Sports, Methods and applications., Surjit Publications, new delhi 1982.
- Ajmer Singh and Jagtar Singh Gill: Essential of Physical education and Olympic movement Kalyani Publishers, Ludhiana. 2004.

Course Title: Apparel Testing

Course Code: BAT316

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Practice testing and evaluating different types of quality parameters of garments, etc
2. Introduce various departments of an apparel testing industry.
3. Use research-based knowledge to sustain in apparel industry

Course Content

UNIT-I

13 hours

Fabric construction particulars: aerial weight, thickness, thread count, cover factor

Equipments to be used are GSM cutter & Weighting balance, Beasley Balance, Pick Glass,

Dissection Needle, Calculator and Fabric thickness tester.

Determining shrinkage of fabric using shrinkage tester.

UNIT-II

12 hours

Determining fabric bending properties using stiffness tester

Determinations of fabric drape using drape meter.

Determining fabric tensile strength using tensile tester.

Determining Fabric Abrasion using abrasion tester.

UNIT-III

9 hours

Determining fabric crease recovery using crease recovery tester.

Determining fabric Pilling using pilling tester.

Determination of colour fastness to rubbing using crock meter.

Determination of colour fastness to washing using washing fastness tester

UNIT-IV

11 hours

Determination of colour fastness to light.

Determination of garment accessories testing - Button, Snap pull test, zipper test, seam

Strength test.

Transaction Mode: Group Discussions, Questions, Project Based Learning, Video Based Teaching

Suggested Readings

- J.E.Booth- "Principles of Textile Testing", CBS Publishers & Distributors, 1996.
- Sundaram V, "Hand book of Textile Testing", CTRL Publication, Bombay.
- Textile Testing Vol.I& II by Anagappan& Gopalkrishnan
- An Introduction to Quality Control for Apparel Industry , Pradip Mehta
- Managing Quality in the Apparel Industry, Pradip Mehta & Satish Bhardwaj

L	T	P	Cr.
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Course Title: Clothing & Textile

2	0	2	3
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Course Code: BAT317**Total Hours: 45**

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Know about the variety of equipment, machines, and accessories for sewing and embroidery
2. Gain the knowledge about different types of fabric
3. Enable the various elements of designing
4. Discover the suitable methods to prepare and maintain the household activities

Course Content

THEORY

UNIT-I

10 hours

Sewing equipment and supplies used in clothing construction and their use and care.

Sewing machine and its parts, accessories of sewing machine, common defects and remedies.

UNIT-II

14 hours

Anthropometry (body measurements), precaution in taking and recording measurements.

Drafting and its importance.

UNIT-III

12 hours

Elements of design such as colour, line, form and texture.

Principles for design such as harmony, balance, rhythm, emphasis and proportion.

UNIT-IV**09 hours**

Selection of suitable clothing with reference to income, climate, occasion, occupation and fashion etc. for Infants and toddlers, Adolescents, adults and elderly persons.

PRACTICAL

1. Testing of cotton, wool and silk by microscopic and burning.
2. Stain removal-Rust, coffee, pan, paint, dye, nail polish, lipstick, perfume, blood, medicine, boot polish turmeric and tea.
3. Spot cleaning of any one woollen garment.
4. Simple household dyeing of a cotton fabric of size 12" X 12" and preparing samples of various methods of tie and dye.
5. Prepare one article of Tie and Dye/Batik.
6. Prepare a wall hanging of tie and dye.
7. Laundering and finishing of following garments:
 - a) Cotton-blouse, salwar, kameez.
 - b) Synthetic- Terry cot, knicker, gathered frock, pleated skirt.
 - c) Silk- blouse, sari.
 - d) Woolen cardigan or pullover.

Suggested Readings

- DurgaDeulkar, 1973: *Household Textiles and Laundry Work*, Atma Ram and Sons. New Delhi.
- Gooch Peter M., 1974: *Ideas for Fabric Printing and dyeing*, Charles fribners, New York.
- Grayson Marlin, 1984: *Encyclopedia of Textiles*, Fibres and Non woolen fabrics, John wiley New York.
- Irabel S. Wingate, 1970: *Textiles Fabric and their Selection*, Prentice Hall Englewood Cliffs.

Course Title: Music**Course Code: BAT318**

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Studies about the musical terms of Hindustani music.
2. Various developments in brief in the history of north India music during the modern period 18 to 20th century AD.
3. Write the practical composition according to the notation system.
4. Studies about the theoretical aspects of raags.

Course Content

UNIT-I**10 hours**

1. Brief life sketches of and contribution of great musician .
 - a) Ustad bismillah khan
 - b) Dalipchanderbedi
 - c) Pro. Tara singh

UNIT-II**14 hours**

1. knowledge of bhatkhandeThaatpadhati .
2. different varieties of raags of the present raags system of north Indian music .
to write the notation of the present raags ; Bageshwari , bhopali

UNIT-III**12 hours**

1. Various developments in brief in the history of north India music during the modern period 18 to 20th century AD.
2. Knowledge of the flowing non detail raags ; a) deskar b) Bilawal (only aroh , avroh and pakad)

UNIT-IV**09 hours**

1. Knowledge of dhrupad
2. Definition and types of khyal
3. Brief description of tanpura

Transaction Mode: Lecture, Problem Solving, Discussion, Demonstration

Suggested Readings

- Dr.Davinder Kaur: *SangeetRoop*(1 January 2017), *sangeetanjali publication Patiala*
- Dr. Mrieunjayasharma , Dr Ram Narayan : *Sangeet manual*(1 January 2014) H.G Publication delhi
- Dr. Yaspal Sharma: *GayanKalan*(1998) , Punjabi university Patiala
- Dr.SumanLata: *Hindustani ShastrisangeetSidhantavamVyavhar*,karnal publications

Semester-IV**Course Title: English****Course Code:****BAT401**

L	T	P	Cr
4	0	0	4

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Interpret literary texts and use them in enhancing their reading and writing skills.
2. Use a variety of reading strategies to foster comprehension.
3. Analyze texts with reference to ambiguity, complexity and aesthetic value of literary pieces.
4. Employ appropriate writing skills for academic writing including note making, report and précis.

Course Content**UNIT-I****14 hours**

1. Charles Dickens: *Great Expectations*

UNIT-II **17 hours**

2. Texts Prescribed for Grammar
Oxford Practice Grammar by John Eastwood (Exercises 104 to 136)

UNIT-III **16 hours**

3. Reading Skills
○ Comprehension of Unseen Passage (Poetry and Prose)

UNIT-IV **11 hours**

4. Vocabulary:

Synonyms
Proverb

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Best, Wilfred D. *The Student's Companion*, The Pearson Education, 1983.
- Eastwood, John. *Oxford Practice Grammar*, OUP, 2004.
- Dickens, Charles. *Great Expectations*, Hertfordshire: Wordsworth Classics, . 1992.

Course Title: pMjwbl

L	T	P	Cr.
4	0	0	4

Course Code-402

Total Hours: 60

Course Outcomes: On successful completion of this course, the students will be able to

1. pMjwblnwwlbwryjwxkwrlidyxw[
2. fw. dllpkOritvwxwbwryjwxkwrlidyxw[
3. ieMtrnYtbwryjwxkwrlpRwpqkrngy[
4. sUcnwqknwlojlbwryjwxkwrlpRwpqkrngy

Course Content

Bwg-a **20 hours**

1. *dllpkOritvwxw: eyhohmwrwjlvxw (nwvl)[*

Bwg-A **10 hours**

2. *pYHrwpVHkypRSnWdyau`qrdyxy[*

Bwg-e **15 hours**

3. *sUcnwqknwlojlnwlsbMiDqqknkISbdwvlI[*

4. *kMipaUtr,* *ieMtrnY`t,*
sUcnwqknwlojlnwlsbMiDqmu`FljwxkwrlAqymh`qqwbwrylyKilKxw
 [

Bwg-s

15 hours

5. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਸੁਰ ਪ੍ਰਬੰਧ

6. *pMjwbIBwSwdlaup-vwkjugq*

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

pusqksUcl

- ਦਲੀਪ ਕੌਰ ਟਿਵਾਣਾ, ਏਹੇ ਹਮਾਰਾ ਜੀਵਣਾ, ਲੋਕ ਗੀਤ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ 1971
- *joigMdrisMGpuAwr,* *bldyvisMGclmw,*
suKivMdrisMGsMGwAqyvydAgnlhoqrl, *pMjwbIBwSwdwivAwkrn*
(Bwg-dUjw),pMjwbIBwSwAkwdml, jIMDr[

Course Title: Punjab History & Culture

Course Code:

L	T	P	Cr
4	0	0	4

BAT403

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Provide information regarding background of Political struggles.
2. Develop understanding various concepts of Guru's Period.
3. Provide information of institutions in Sikh history.
4. Understand the concept of Dal khalsa.

Course Content

UNIT-I **14 hours**

1. Martyrdom of Guru Teg Bahadur Ji: Causes and Impact.
2. Guru Gobind Singh's Relations with the Hill Rajas and Mughals.

UNIT-II **17 hours**

3. Creation of the Khalsa or the Khalsa in Action.
4. Emergence of Dissenting Sikh Sects: Udasis, Minas Ramraias Dhirmalias.

UNIT-III **16 hours**

5. Banda Bahadur and his achievements and its failure.
6. Political struggle of the Sikhs against Zakariaya Khan, Yahiya Khan, Mir Mannu.

UNIT-IV **11 hours**

7. Origin and Development of Dal Khalsa, Rakhi system and Gurmata.
8. Sikh-Afgan struggle (1762-65); Causes of Sikh success against the Mughals and Afghans.

Course Title: Creative Writing

Course Code: BAT404

L	T	P	Cr.
0	0	4	2

Total Hours: 30

Course Outcomes: On successful completion of this course, the students will be able to

1. rcnwqmkiKqWbwryjwxkwrIhwisIkrngy[
2. inbMDrcnwqypYrHwrcnwbwryjwxkwrIdyxw[
pMjwbImwsmIfIAwdIsmkwlIsiQqIAqyiesdyKyqrdImh`qqwnUMsmJx
3. gy[
4. rujgwrdep`KoirjnwqmkiKqWilKxdyXoghoxy[

Course Content

UNIT-I

8 hours

SwihqisrjxwdybuinAwdInukqy :

- swihqdlpirBwSw, srUpAqyivSySqwwW
- swihqAqysmwjprsprAMqr-sbMD
- swihqAqyhorAnuSwsn :mnoivigAwn, drSnSwsqrAqysmwjSwsqr

UNIT-II

8 hours

kwivlyKx

- kivqw: pirBwSw, rUpAqyivSySqwwW
- kwivBwSw, kwivibMbAqypRqk, CMd, bihr
- glq, gzIAqyKullkivqwdlisrjxwkrnw

UNIT-III

8 hours

khwxllyKx :

- in`klkhwxl: pirBwSw, srUpAqyivSySqwwW
- kQwnk, pwqricqrx, vwrqwlwpAqyBwSwSYll
- in`klkhwxllyKx

UNIT-IV

6 hours

inbMDlyKx :

- inMbD: pirBwSw, srUpAqyivSySqwwW
- ivSydl cox AqyloVINdism`gri

- *inbMDlyKx*

Transaction Mode: Lecture, writings, Problem Solving, blended learning, Discussion

pusqksUcl

- *fw. blblrisMGidl, pMjwblinbMD: srUp, isDWqAqyivkws, pbllySnibaUro, pMjwbIXUnlvristl, pitAwlw[*
- *joigMdrisMG, ipMglAqyAwrUz, pMjwbIswihqAkwdml, luiDAwxw[*
- *gurmylisDU, KullkivqwdymwpdMF, cyqnwpRkwSnluiDAwxwI*

Course Title: Reading and Writing Skills

Course Code: BAT405

L	T	P	Cr
1	0	0	1

Total Hours: 15

Course Learning Outcomes: On successful completion of this course, the students will be able to:

1. Comprehend the concept of Reading and Writing in English.
2. Explore the benefits and barriers of Effective Reading.
3. Acquaint with different types of Reading and Writing.
4. Differentiate between Formal and Informal Writing.

Course Content

UNIT-I

4 hours

Reading Types-silent/loud, extensive and intensive

Reading Skills- Purpose, Process, Methodologies

UNIT-II

4 hours

Levels of Reading

Reading Comprehension

Defects in reading and their remedial measures

UNIT-III

3 hours

Elements of Effective Writing (What is writing?)

The Sentence, Phrases and Clauses

Types of Sentences

UNIT-IV

4 hours

Main Forms of Written Communication

Paragraph Writing (Linkage and Cohesion)

Letter writing (formal and informal)

Essay writing

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings:

- Monippally, Matthukutty, *M. Business Communication Strategies*. Tata
- McGraw-Hill Publishing Company Ltd., 2001.
- Adair, John. *Effective Communication*. Pan Macmillan Ltd., 2003.
- Hasson, Gill. *Brilliant Communication Skills*. Great Britain: Pearson Education, 2012.

Course Title: English literature

Course Code: BAT406

L	T	P	Cr
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Develop critical thinking and imagination through English Prose and poetry.
2. Grasp the process of communicating and interpreting human experiences through literary representation.
3. Have an awareness of class, race and gender as social constructs of Elizabethan and Romantic Periods of English literature.
4. Create a concept of feminism as a social movement and a critical tool for interpreting texts.

Course Content

UNIT-I	11 hours
William Shakespeare: As you Like It	
UNIT-II	11 hours
Wordsworth: The Prelude book 1	
UNIT-III	11 hours
Christopher Marlowe: The Jew of Malta	
UNIT-IV	12 hours
Mary Wollstonecraft: Vindication of the Rights of Women	

Transaction Mode: Brain Storming, Quiz, Group Discussion, Open Talk.

Suggested Readings

- Wordsworth ,William . *The Prelude*. Penguin, 1983
- Woolstonecraft, Mary. *A Vindication of the Rights of Woman* ,Penguin Classics, 2004 .
- Marlowe, Christopher. *The Jew of Malta*. Manchester University Press, 1997.
- Wollstonecraft, Mary. *The Vindications The Rights of Woman*. Broadview Literary Texts, 1997.

Course Title: *coxvINpMjwbl*

L	T	P	Cr.
3	0	0	3

Course Code: **BAT407**

Total Hours: 45

Course Outcomes: On successful completion of this course, the students will be able to:

1. *pMjwbl kivqwbwryjwxkwrlidyxw[*
2. *v`K-v`KkvIAWbwryjwxkwrlidyxw[*
3. *AnuvwdbwryjwxkwrlpRwpqkrngy[*
1. *pMjwblSbdjoVbwryjwxkwrlpRwpqkrngy*

Course Content

Bwg-a 10
hours

1. *pMjwblkivqwdwieiqhws*

Bwg-A 15
hours

2. *ਕਾਵਿ ਕੀਰਤੀ, ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ, ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ ਅੰਮ੍ਰਿਤਸਰ*

Bwg-e 10
hours

3. *AMgryzlpYHryqoNpMjwblAnuvwd[*
4. *ihMdlpYHryqoNpMjwblAnuvwd[*
5. *pMjwblidyie`kpYHrydlSbdjoVsuDwel,*
mwqrwvWAqyvkwSu`Dlkrn[

lgW-

Bwg-s

10 hours

6. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਲਿੰਗ ਅਤੇ ਵਚਨ ਪ੍ਰਬੰਧ
7. ਪੰਜਾਬੀ ਸ਼ਬਦ ਜੋੜ

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

pusqksUcI

- ਕਾਵਿ ਕੀਰਤੀ, ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ, ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ ਅੰਮ੍ਰਿਤਸਰ
- fw. hirBjnisMG, kwivklrql, guru nwnkdyvXUnlvristIAMimRqsr[
- joigMdrisMGpuAwr, bldyvisMGclmw,
suKivMdrisMGsMGwAqyvydAgnlhoqrl, pMjwblBwSwdwivAwkrn
(Bwg-qljw),pMjwblBwSwAkwdml, jIMDr[

Course Title: हिंदीभाषा एवं काव्यशास्त्र

Course Code: BAT408

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: After successful completion of this course, the students will be able to

1. छात्रों को हिंदी काव्य और महाकाव्य की जानकारी होगी
2. छात्रों की हिंदी शब्दावली में वृद्धि होगी
3. छात्रों की कल्पनात्मक, समीक्षात्मक, सृजनात्मक शक्ति का विकास होगा
4. छात्रों को राष्ट्र भाषा हिंदी की बोली एवं लिपि का ज्ञान होगा

Course Content

भाग— क

12 वनते

काव्य : परिभाषा, स्वरूप, प्रयोजन

महाकाव्य : परिभाषा एवंस्वरूप

हिन्दीनाटक :परिभाषा एवंतत्त्व

हिन्दीकहानी : परिभाषा एवंतत्त्व

भाग- ख

11 ीवन्ते

. तकनिकी शब्दावली , विराम चिन्ह , सन्धि

भाग-ग

10 ीवन्ते

भाषा -परिभाषा , प्रवृत्ति एवं अभिलाक्षणा

भाग- घ

12 ीवन्ते

राष्ट्रभाषाहिन्दी : बोलीऔर लिपि

हिन्दीसंस्मरण : उद्भवऔरविकास

हिन्दीरेखाचित्र : उद्भवऔरविकास

Transaction Mode: Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

lgk;diqLrdsa%

- भावुक, कृष्ण) डॉ (., हिंदी भाषा का इतिहास, अशोक प्रकाशन, दिल्ली, 1997
- तिवारी, भोलनाथ) डॉ (., हिंदी भाषा, किताब महल, इलाहाबाद, प्रथम संस्करण, 1966
- तिवारी, भोलनाथ) डॉ (., भाषा विज्ञान, किताब महल, इलाहाबाद, प्रथम संस्करण, 1951
- शास्त्री, रामचंद्र वर्मा) डॉ (. एवं डॉ . माया अग्रवाल, भाषा-विज्ञान एवं हिंदी भाषा, अनीता प्रकाशन, दिल्ली, 1994
- बाहरी, हरदेव) डॉ (., हिंदी : उद्भव, विकास और रूप, किताब महल, इलाहाबाद, प्रथम संस्करण 1965

Course Title: Public Finance and International Economics

Course Code: BAT409

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Explain the nature of public finance and difference between the private and public finance.
2. Elucidate the concepts of Balance of Payments and foreign exchange rate.
3. Identify the tax structure in India.
4. Describes the achievements of World Bank, SAARC and IMF.

UNIT-I

12 hours

Introduction to Public Finance and Taxes: Public Finance: Nature and Scope; Public, Private and Merit Goods. Social Goods and Market Failure; Principle of Maximum Social Advantage. Tax: Meaning and Classification of Taxes; Structure of Public Budget. Allocation of Tax Burden-Benefit and Ability to Pay Theories; Incidence and Shifting of Tax Burden, Dead Weight Loss. Major Taxes in India; Goods and Services Tax (GST) in India: Concept and Structure

UNIT-II

10 hours

Public Expenditure & Public Debt: Public Expenditure: Meaning and Importance, Wagner's Hypothesis. Classification of Public Expenditure, Reasons for the Growth of Public Expenditure, Trends in India's Public Expenditure. Public Debt-Sources and its Impact on Economic Growth, Debt Redemption, Fiscal Federalism in India.

UNIT-III

11 hours

Introduction and International Trade Theories: International Economics: Meaning, Scope and Importance; Need for Separate Theory of International Trade. Pure Theory of International Trade: Absolute Cost Advantage Theory, Comparative Cost Advantage Theory, Opportunity Cost Theory, Heckscher-Ohlin Theory, Leontiff Paradox. Concepts of Terms of Trade; Doctrine of Reciprocal Demand, Offer Curves; Singer-Prebisch Thesis.

UNIT-IV**12 hours**

Foreign Exchange and Balance of Payment: Meaning of Foreign Exchange; Exchange Rate; Exchange Rate System: Fixed vs. Floating Exchange Rate Policy; Exchange Rate Determination: Purchasing Power Parity Theory Demand and Supply Theory. Balance of Payments: Concept and Components, Disequilibrium in Balance of Payments, Balance of Payments Adjustment. Free Trade and Protection: Arguments for and against; Methods of Protection. GATT & WTO: Functions and Agreements; IMF: Objectives, Functions and Achievements; World Bank Objectives, Functions and Performance.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Musgrave, A R and Musgrave, P B (1976). *Public finance in Theory and Practice*, McGraw Hill, International Student's Edition.
- Kindleberger, C P (1977). *International Economics*, Richard Irwin Homeswood Illinois, Indian Edition.
- Soderston, B O (1990). *International Economics*, Macmillan Press Ltd.

Course Title: Social Change and Development**Course Code: BAT410**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Develop skills to understand the causes and development of social change
2. Familiarize with the theoretical perspectives of social stratification.
3. Explain social discrimination on the basis of power and gender in Indian society.
4. Analyze the changing patterns in caste system and development policies in India.

Course Content

UNIT-I

12 hours

Social change: Meaning, definition, features Types of social change: Evolution, Revolution, Progress and Development (concept and feature).

UNIT-II

11 hours

Process of social change: Features of Industrialization, Modernization, Globalization, Westernization.

UNIT-III

12 hours

Definition and meaning of development, Economic growth and development

Social development and social indicators, Environment and Development, Sustainable development

UNIT-IV

10 hours

Development programmes in India: Five-year plans, Community Development Programme (CDP), Panchayati Raj and its impact on women empowerment.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration.

Suggested Readings

- Desai, A.R.1985.*India's path of development: A Marxist approach*. Bombay: Popular Prakashan.
- Dube, S C. 1998.*Modernization and development*. Vistaar Publisher: New Delhi.
- Giddens, A. 1990. *The consequences of modernity*.Cambridge: Polity press
- Moor, W. and Robert, C. 1967.*Social change*. New Delhi: Prentice Hall.
- Sharma, S L. 1986 *Development: Socio-cultural development*. Rawat Publications, Jaipur.
- Singh Sukhdev.1997.*PenduSamaaj ate Pendu Vikas*. Patiala:Publication Bureau Punjabi University.
- Srinivas, M.N.1966.*Social change in modern India*. Berkley: University of Berkley.

Course Title: Political Science-IV

L	T	P	Cr
3	0	0	3

Course Code: BAT411

Total Hours 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Discuss the role of Caste, Religion and Regionalism in Indian Politics
2. Compare and contrast the powers, function of election commission and voting behavior.
3. Categorize the various regional and national political parties.
4. Identify the functioning of various organs of Indian government such as legislature, Executive and Judiciary.

Course Content

UNIT-I **10 hours**

1. Indian Cabinet: Prime Minister, Appointment, Powers, Position and Changing Role.
2. Supreme Court: Composition, Powers and role in the Indian Constitutional Process

UNIT-II **13 hours**

3. Nature of Party System in India: A critical evaluation.
4. National Political Parties (Indian National Congress and BJP): their Organization, Ideology and electoral performance
5. Pressure Groups in Indian Politics and their Role.

UNIT-III **09 hours**

6. Role of Religion in Indian Politics.
7. Caste and Regionalism in Indian Politics.

UNIT-IV **12 hours**

8. The Election Commission: Composition, Powers and Role.
9. Electoral Reforms in India
10. Determinants of voting behaviour in India.

Transaction Mode: Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

Suggested Readings

- Assembly, Constituent.(1949) "Constitution of India." Ministry of Law and Justice, editor. New Delhi, India: Ministry of Law and Justice, India .
- Bose, Durgadas. (1955). ed. Commentary on the Constitution of India... Vol. 1. SC Sarkar.
- Joshi, GulabbhaiNaranji. (1975.) The Constitution of India. Delhi: Macmillan Company of India.
- Ghosh, Pratap Kumar. (1966). *The Constitution of India: How it Has Been Framed*. PrabhatPrakashan.
- Puneeth, P. &_V. N. Shukla. (2008). Constitution of India.

- G. Austin. (1966). The Indian Constitution: Corner Stone of a Nation, Oxford, Oxford University Press.
- G. Austin.(2000). Working of a Democratic Constitution: The Indian Experience, Delhi, Oxford University Press.
- D.D. Basu.(1994).An Introduction to the Constitution of India, New Delhi, Prentice Hall.
- C. P. Bhambari.(1997).The Indian State fifty years, New Delhi, Sipra.
- P. Bras.(2003).Politics of India since Independence, Cambridge University Press,
- P. Brass. (1995).Ethnic Groups and the State, London, Crook Helm.
- P. Brass. (1974).Language, Religion and Politics in North India, London, Cambridge University Press.
- B.L. Fadia.(1984).State Politics in India, Vol. II, New Delhi, Radint Publisher.
- F.R. Frankel. (1978).Indian Political Economy oxford university press.
- R. Kothari .(1988).State against Democracy : In Search of Human Governance, Delhi, Ajantha.
- R. Kothari. (1970) .Politics in India, New Delhi, Orient Longman.
- R. Kothari.(1967).Party System and Election Studies, Bombay, Asia Publishing House.
- Iqbal Narain.(1967).State Politics in India, Meerut, Meenakshi Parkashan,
- M.V. Pylee .(1977).Constitutional Government in India, Bombay, Asia Publishing House.

Course Title: History of Sikhs

Course Code: BAT412

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Understand the various concepts in the Gurus Period.
2. Provide information regarding Political, Social & Religious issues of during period..
3. Discuss social condition of Punjab.
4. Provide information about the religious condition Punjab

UNIT-I

12 hours

Sources: Main Sources of Punjab History.

Guru Nanak Dev: His Teachings; Evaluation of Sikhism 1539-1606 (from Guru Angad to Guru Arjun Dev Ji)

UNIT-II

10 hours

Transformation of Sikhism from Guru Hargobind to Guru Tegh-Bahadur.
Guru Gobind Singh: Creation of the Khalsa and its Significance.

UNIT-III

11 hours

Relations of Sikh Gurus with Mughals, 1605-1708.
Banda Bahadur and establishment of Independent rule of the Sikhs; causes of his ultimate failure.

UNIT-IV

12 hours

Sikh Struggle against the Mughals during the periods of AbdusSamad Khan, Zakariya Khan, Mir Mannu and Adina Beg.

Maps:

- a) Battle of Guru Gobind Singh.
- b) Military exploits of Banda Bahadur.
- c) Important places connected with the Sikh Gurus in the Punjab.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Banerjee, InduBhushan, Evaluation of the Khalsa, Vol. I & II (English & Punjabi)
- J.S. Grewal, New Cambridge History of India; The Sikhs of the Punjab
- Joginder Singh &, Punjab da Itihas (Punjabi)
- Prithipal Singh Kapoor
- Bhagat Singh, Punjab da Itihas (Punjabi), PP. 34-506
- Arora, A.C., Punjab d Itihas (Punjabi & Hindi)
- Gurcharan Singh &, History of the Punjab (Punjabi & Hindi)
- Gandhi S.S.
- Khushwant Singh, History of the Sikhs, Vol. I
- Arora, A.C., Atlas of the Punjab History (English, Punjabi & Hindi),
 - PP 2-26
- Verma, D.K., Guru Gobind Singh on Canvas of History (English).

Course Title: Religious Movements: Medieval and Modern

L	T	P	Cr.
3	0	0	3

Course Code: BAT 413**Total Hours: 45****Course Learning Outcomes: On successful completion of this course, the students will be able to**

- 1 Understand that the academic study of new religious movements is known as new religions studies.
- 2 Know that the new religious studies have been drawn from the disciplines of anthropology, psychiatry, history, psychology, sociology, religious studies, and theology.
- 3 Understand that the five sources of information on NR Ms, the information provided by such groups themselves, that provided by ex-members as well as the friends and relatives of members and organizations.
- 4 Learn that philosophy of religion is the philosophical examination of the central themes and concepts involved in religious traditions.

Course Content**UNIT- I****12 hours**

1. lihr: auqplqyivkws
2. BgqllihrdypRBwv
3. Bgqkblrjl, Bgqnwmdyvjl, Bgqrivdwsjl: jlvnvyrvw

UNIT-II**10 hours**

4. sU&lmq: AwrMBAqyivkws

5. *sU&Imq: ivSySqwwW*

6. *bwbw&rdjl: jlvnqyis~iKAwwW*

UNIT-III

11 hours

7. ਸੰਤ ਨਿਰੰਕਾਰੀ ਮਿਸ਼ਨ

8. ਚੀਫ਼ ਖ਼ਾਲਸਾ ਦੀਵਾਨ

9. ਸ਼੍ਰੋਮਣੀ ਗੁਰਦੁਆਰਾ ਪ੍ਰਬੰਧਕ ਕਮੇਟੀ

UNIT-IV

12 hours

10. *rwmikRSnimSn*

11. *bRhmosmwj*

12. *AwrlAawsmwj*

ਟ੍ਰਾਂਜੈਕਸ਼ਨ ਮੋਡ: ਲੈਕਚਰ, ਸਮੱਸਿਆ ਹੱਲ, ਮਿਸ਼ਰਤ ਸਿਖਲਾਈ, ਚਰਚਾ ਅਤੇ ਪ੍ਰਦਰਸ਼ਨ, ਅਤੇ ਕੇਸ ਅਧਿਐਨ।

shwiekpusqkW

- *au~qrlBwrqdlSMqprMprw, prSurwmcqurvydl (ihMdl)*
- *gurduAwrwsuDwrlhr, ig. pRqwpisMG, KwlswbRdrz,sRIAMimRqsrswihb[*
- *SyK&rdqyrcnw, fw. qwrnisMG, blvlrkOr, pMjwbIXUnlvristl,pitAwlw[*
- *BgqIAMdolnqygurUnwnk, fw. mnmohnisMG*
- **Punjab Past and Present** (Special Issue), Dr. Ganda Singh

Course Title: Math 4th (Complex Analysis)

Course Code: BAT414

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to:

1. Acquire the basic ideas of analysis for complex functions in complex variables with visualization through relevant practical situations.
2. Understand the significance of differentiability of complex functions leading to the understanding of Cauchy-Riemann equations.
3. Evaluate the contour integrals and understand the role of Cauchy-Goursat theorem and the Cauchy integral formula.
4. Expand some simple functions as their Taylor and Laurent series, classify the nature of singularities, find residues and apply Cauchy Residue theorem to evaluate integrals.

Course Content

UNIT-I

12 hours

Analytic Functions and Cauchy-Riemann Equations: Functions of complex variable, Mappings; Mappings by the exponential function, Limits, Theorems on limits, Limits involving the point at infinity, Continuity, Derivatives, Differentiation formulae, Cauchy-Riemann equations, Sufficient conditions for differentiability; Analytic functions and their examples.

UNIT-II

12 hours

Elementary Functions and Integrals: Exponential function, Logarithmic function, Branches and derivatives of logarithms, Trigonometric function, Derivatives of functions, Definite integrals of functions, Contours, Contour integrals and its examples, Upper bounds for moduli of contour integrals.

UNIT-III

10 hours

Cauchy's Theorems and Fundamental Theorem of Algebra: Antiderivatives, Proof of antiderivative theorem, Cauchy-Goursat theorem, Cauchy integral formula; An extension of Cauchy integral formula, Consequences of Cauchy integral formula, Liouville's theorem and the fundamental theorem of algebra.

UNIT-IV

11 hours

Series and Residues: Convergence of sequences and series, Taylor series and its examples; Laurent series and its examples, Absolute and uniform convergence of power series, Uniqueness of series representations of power series, Isolated singular points, Residues, Cauchy's residue theorem, residue at infinity; Types of isolated singular points, Residues at poles and its examples.

Transaction Mode- Video Based Teaching, Collaborative teaching, Group Discussion, ted talks, E team Teaching, Quiz, Case analysis.

Suggested Readings

- Brown, James Ward, & Churchill, Ruel V. (2014). *Complex Variables and Applications* (9th ed.). McGraw-Hill Education. New York.
- Bak, Joseph & Newman, Donald J. (2010). *Complex analysis* (3rd ed.). Undergraduate Texts in Mathematics, Springer. New York.
- Zills, Dennis G., & Shanahan, Patrick D. (2003). *A First Course in Complex Analysis with Applications*. Jones & Bartlett Publishers, Inc.
- Mathews, John H., & Howell, Rusell W. (2012). *Complex Analysis for Mathematics and Engineering* (6th ed.). Jones & Bartlett Learning. Narosa, Delhi. Indian Edition.
- Suggested digital platform: NPTEL/SWAYAM/MOOCs.

Course Title: Physical Education

Course Code: BAT415

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Know about the functions of different organs of respiratory system
2. Know about the communicable diseases
3. Understand the effects of yoga on body

Course Content

THEORY

UNIT-I**12 hours**

Digestive system: - Structure and function of different organs of digestive system and mechanism of digestion.

Respiratory system: Structure and function of different organs of Respiratory system, mechanism of respiration (Internal & External).

Excretory System: Structure and function of kidney and skin.

UNIT-II**10 hours**

Endocrine System: - Structure, Function and location of Pituitary, Thyroid and Adrenal glands.

Communicable Diseases: - Classification, mode of transmission, presentation and control of malaria tuberculosis, hepatitis A, B, tetanus, Typhoid, rabies and Aids.

Yoga: - Meaning, aim, importance and types of yoga.

UNIT-III**13 hours**

Asanas: - Importance, practicing meditative pose-padma,vagra, such asana Culture poses:- halasanas, sarvangasana, bhujayasana, salbhasana, dhanurasanas and chakarasana.

Effect of yoga on body:- Effect of yoga on different system of body.

Pranayam: - Meaning, objective, importance physiological value and types.

UNIT-IV**10 hours**

Sudhi Kirya: - Meaning, Objective, Physiological values and types.

Conditioning: - Meaning, objective, importance and principal.

Relaxation: - Meaning, importance and techniques of relaxation progressive muscle relaxation, breathing exercise, yoga nidra and transcendental meditation.

PRACTICAL

Relay and Hurdle	8M (Any One Race)
Pole Vault	8M (Any One Race)
Hummer Throw	8M (Any One Race)
Judo, Ball Badminton, Volleyball	16M (Any One Game)

Suggested Readings

- Kang G. S. Deol N. S. – An introduction to Helth and Physical Education 21st century Patiala 2008.
- Yoga Hygiene, simplified by the Yoga institute, Santa Cruz, Bombay, shri Yogendra1980.

- Swami Siranander: The Science of Paranayama, 1978, Published by the Divine life society P. O. Shivananda Nagar. Distt. Tehri Garhwal. U. P. Himalayas Ind.
- Facts about by Shri Yogendra,1975, Kuvalaya Dhama, Lonavala Bombay.
- Bucher Olsen and Willgoose: The Foundation of Health, Prentice Hall inc. Englewood fliffs, New Jersey,1976.
- G. S. Kang: Anatomy, Physilogy and Health Education, Published by Publication Bureau, Punjabi University, Patiala.
- Ajmer Singh and Jagtar Singh Gill: Essentail of Physical education and Olympic movement Kalyani Publishers, Ludhiana.2004.

Course Title: Draping and Grading Lab

Course Code: BAT416

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Learn about grading department industries
2. Know advantages and disadvantages of the Draping
3. Enhance skill of Pattern development through draping:
4. Have Knowledge about grading & its importance.

Course Content

UNIT-I

13 hours

Introduction to draping;
Advantages and disadvantages.

Seam allowances/ease.

Understanding of style lines.

Preparation of Muslin for draping.

UNIT-II

9 hours

Terminology related to draping

Equipment needed

UNIT-III**11 hours**

Pattern development through draping:

Basic Bodice

Design variation

Manipulating dart excess at different locations

Dividing dart excess- Waist & side seam, waist & shoulder

Princess line

UNIT-IV**12 hours**

Different types of Skirts

Grading techniques:

Introduction to grading & its importance

Introduction to different methods: Front bodice, Back bodice, Sleeve block

Transaction Mode: Group Discussions, Questions, Project Based Learning, Video Based Teaching

Suggested Readings

- Harold Carr & Barbara Latham, 2008 *The Technology of clothing Manufacture*, Blackwell Science
- Singer, 1994 *Sewing Lingerie*, Cy Decrosse incorporated
- Coklin Gerry, 1991, *Pattren Grading Of children's* Om Book Service

Course Title: Food & Nutrition**Course Code: BAT417**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: After successful completion of this course, the students will be able to

1. Know and understand the importance and different elements of a balanced diet
2. Classify the various principles and methods to prepare a meal
3. Knowledge about the nutrition food for patients, Pregnant women, and lactating mother
4. Develop the knowledge about the methods of food preservation

Course Content

THEORY

UNIT-I

12 hours

Food: functions of food and classification

Essential food constituents: Carbohydrates, Protein, Fats.

Recommended daily allowances, deficiency and excess intake of – Vitamins, Minerals, and Water functions in the body. Role of dietary fiber in human nutrition.

UNIT-II

10 hours

Principles and methods of cooking. Advantages of cooking of the food. Effect of cooking on different nutrients.- Moist heat - Boiling, stewing, steaming- Dry heat - Roasting grilling baking- Frying - Shallow and deep- Radiation - Solar and microwave

Methods of enhancing nutritive value of food stuff.- Importance of enhancing nutritive value of food stuffs.- Method of enhancing nutritive value of food stuffs, Sprouting fermentation combination and supplementation.

UNIT-III

10 hours

Concept of Meal planning, balanced diet

Principles of meal planning, factors affecting. Meal planning for- male and female, Pregnant women and lactating mother

UNIT-IV

13 hours

Introduction to therapeutic Nutrition, therapeutic adaptation of the normal diet soft and fluid diet, planning of diet in- Typhoid fever, Diarrhea., Constipation, Diabetes, High Blood Pressure, Food Preservation:
Food Preservation –Importance, Causes of food spoilage, Principles of food preservation, Methods of food preservation with special emphasis on household methods.

PRACTICAL

Preparation of:

1. Beverages- Tea, Coffee, Milkshake.
2. Cereals-Rice, Chappati, Sandwich, Pastries, Cakes.
3. Vegetables Salad, Curries.
4. Fruit-Fresh and stewed.
5. Milk-Porridge, Curds, paneer.
6. Soups-clear.
7. Meat-cookery/alternative Vegetarian substitutes,
8. Some traditional recipes of Punjab.

Planning and Preparation of meals for:

9. Adolescents' boys and girls.
10. Planning and preparation of diets for the patients suffering from:
Diabetes and vitamin deficiencies.

Suggested Readings

- DurgaDeulkar, 1973: *Household Textiles and Laundry Work*, Atma Ram and Sons. New Delhi.
- Farmer Bedrich, 1982: *Batik and Ikat*, Cutter Worth London.
- Gooch Peter M., 1974: *Ideas for Fabric Printing and dyeing*, Charles fribners, New York.
- Grayson Marlin, 1984: *Encyclopedia of Textiles*, Fibres and Non woolen fabrics, John wiley New York.
- Irabel S. Wingate, 1970: *Textiles Fabric and their Selection*, Prentice Hall Englewood Cliffs.

Course Title: Music**Course Code: BAT418**

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Studies the texts of ancient scholars of Hindustani music.
2. Learns about the life and contribution of the composers of Hindustani music.
3. Detailed knowledge of Dhrupad & Dhammar styles of singing.
4. Learns to write the practical composition according to the notation system.

Course Content

UNIT-I**12 hours**

1. Historical development of Indian music during 14th to 17th century with special reference to Akbar period.
2. Contributions and life sketches of following Musicians:
 - a) Bade Gulam ALI Khan
 - b) Pt. Bhimsain Joshi

UNIT-II**14 hours**

1. Detailed knowledge of Dhrupad & Dhammar styles of singing.
2. Varieties of Tans.
3. Description & notations of the following ragas & talas :
 - a) Malkauns
 - b) Bhageshwari
 - c) Bhairavi

UNIT-III**08 hours**

1. Taalas: Char taal, Tilwara
2. Importance of Laya & talas in music.
3. Definitions of music.

UNIT-IV**11 hours**

1. Historical development of Indian music 1st to 17th century.

a) Matang Muni b) Sharang Dev

2. Origin & development of the Thumrigayanshailee.

Transaction Mode: Lecture, Problem Solving, Discussion, Demonstration

Suggested Readings

- Dr. Davinder Kaur: (1 January 2017) *SangeetRoop* (Part-I)
- Dr. Premlata Sharma: (1 January 2007) *Sangeet Manual*
- Dr. Yaspal Sharma: (1998) *Gayan Kalan*
- Dr. Suman Lata: *Hindustani Shastrisangeet Sidhantavam Vyavhar*

Semester-V

Course Title: English

Course Code:

BAT501

L	T	P	Cr
4	0	0	4

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Interpret critically English literary texts.
2. Read and comprehend texts written in English.
3. Formulate appropriate Curriculum vitae.
4. Apply skills of interpretation and analysis of texts.

Course Content

UNIT-I

The Sunset Club by Khushwant Singh

16 hours**UNIT-II****17 hours**

Selected College Poems (Orient Longman). Edited by Ambika Sengupta -

The following poems from this book are prescribed:

- a) All the World's A stage
- b) Kubla Khan
- c) Ode to the West Wind
- d) La Belle Dame Sans Merci
- e) Ulysses
- f) My Last Duchess
- g) Say Not the Struggle Naught Availeth
- h) Nightingales.
- i)

UNIT-III**14 hours**

1. a) Essay Writing
- b) Curriculum Vitae writing

UNIT-IV**13 hours**

2. Translation of a running passage comprising at least ten sentences from Punjabi/Hindi into English.

Transaction Mode- Brain Storming, Quiz, Group Discussion, Open Talk.**Suggested Readings**

- Singh, Khushwant. *The Sunset Club* , Penguin Book , 2010.
- Singh, Vandana R. *The Written Word*. Oxford University Press, 2000.

Course Title: ਪੰਜਾਬੀ**Course Code:** BAT502

L	T	P	Cr.
4	0	0	4

Total Hours: 60

Course Outcomes: On successful completion of this course, the students will be able to

1. pMjwbl nwtkbwryjwxkwrl dyxw[
2. Swihq dyieiqhwsbwryjwxkwrl dyxw[
3. Bwrql kivSwsqrbwryjwxkwrlpRwpqkrngy[
4. pMjwbl AMlkwrwbwryjwxkwrlpRwpqkrngy

Course Content

Bwg-a **15 hours**

1. nwtkArQ, pirBwSwAqysMklp

Bwg- A **15 hours**

2. kYmlUpsdlAWm`CIAW (nwtk), fw. AwqmjlqisMG, lokglpRkwSn, cMflgVH[

Bwg-e **15**
hours

3. pMjwblswihqdwieiqhws (1500 qoN 1700)

Bwg-s
15 hours

4. BwrqlkwivSwsqrnwlsMbMDqpMjsMklpAOicqX, vkRokql, swDwrnlkrn, rs, AMlkwr[

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

પ્રમત્તક સુત્રી :

- ਜਗਬੀਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ(ਆਦਿ ਕਾਲ ਤੇ ਭਗਤੀ ਕਾਲ) ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ ਅੰਮ੍ਰਿਤਸਰ
- ਪਰਮਿੰਦਰ ਸਿੰਘ, ਕਿਰਪਾਲ ਸਿੰਘ ਕਮੇਲ ਅਤੇ ਗੋਬਿੰਦ ਸਿੰਘ ਲਾਂਬਾ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉਤਪਤੀ ਤੇ ਵਿਕਾਸ, ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ ਲੁਧਿਆਣਾ।
- ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ, ਸਮੀਖਿਆ ਪ੍ਰਣਾਲੀਆਂ, ਪੰਜਾਬ ਸਟੇਟ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ।

Course Title: Punjab History & Culture

Course Code:

L	T	P	Cr
4	0	0	4

BAT503

Total Hours: 60

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Know the role of social movement in History of Punjab.
2. Enhance the Knowledge of learn about the background of Punjab Society.
3. Understand the administrative and economic development in this period.
4. Expand the information great writers and artists related with Sikh history.

Course Content

UNIT-I

16 hours

1. Social life with special reference to position of women, fairs, festivals, folk music, dance and games in the Punjab.
2. The early British Administration (1849-53).

UNIT-II

17 hours

3. British Policies towards Agriculture, Industry, Trade and Commerce.
4. Socio-Religious reform movement; Arya Samaj, Singh Sabha and Ahmdiya.

UNIT-III**14 hours**

5. Growth of Political Consciousness in the Punjab upto 1907.
6. A brief survey of the role of the Punjab in freedom movement.

UNIT-IV**13 hours**

7. Circumstance leading to the partition of the Punjab, 1947.
8. Great writers and Artists of the Punjab; Bhai Vir Singh, Dhani Ram Chatrik, Amrita Shergill and Sobha Singh

Course Title: Script Writing**Course Code: BAT504**

L	T	P	Cr.
0	0	4	2

Total Hours: 30

Course Outcomes: On successful completion of this course, the students will be able to

1. sikRptlyKxbwryjwxkwrthwislkrngy[
2. iesiqhwrrcnwqypYrHwrcnwbwryjwxkwrlidyxw[
3. pMjwblmwsmlfIAwdlsmkwllsiQqIAqyiesdyKyqrdlmh`qqwnUMsmJxgy[
4. rujgwrldyp`KoirjnwqmkiKqWilKxdyXoghoxgy[

Course Content

Bwg-a

7 hours

- mlfiAwlellyKx (ipRMtmfIAwAqyidRSmlfiAw)
- sikRptlyKx: jwx-pCwx

Bwg-A

8 hours

- iPlmsikRptqyskrInplyAlyKx
- tYllivXnlelsikRptlyKx
- ryifaulelsikRptlyKx

Bwg-e

7 hours

- blwgqyproPwellyKx
- iPlmrlivaU

Bwg-s

8

hours

- pusqkrlivaU
- ieSiqhwrklwlyKx
- swhqklyKxAqyp`qrkwrillyKxdlv`Krqw

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

ਪੁਸਤਕਸੂਚੀ:

1. ਅਜੀਤਸਿੰਘ, ਸੂਚਨਾਤਕਨਾਲੋਜੀ, ਮਦਾਨਪਬਲੀਕੇਸ਼ਨ, ਪਟਿਆਲਾ।
2. ਅਮਰਜੀਤਸਿੰਘਵਤੈਚ, ਇਹਅਕਾਸ਼ਵਾਣੀਏਂ, ਪੰਜਾਬੀਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।
3. ਅਮਰਜੀਤਸਿੰਘਵਤੈਚ, ਹੁਣਤੁਸੀਂ ਖਬਰਾਂਸੁਣੋ, ਪੰਜਾਬੀਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।
4. ਰਵੇਲਸਿੰਘ(ਡਾ.), ਮੀਡੀਆ: ਵਿਹਾਰਕਅਧਿਐਨ, ਗ੍ਰੇਸੀਅਸਬੁਕਸ, ਪਟਿਆਲਾ।
5. ਮੇਘਾਸਿੰਘ (ਡਾ.) ਪੰਜਾਬੀਪੱਤਰਕਾਰੀਦੇਸਮਾਜਿਕਸਰੋਕਾਰਅਤੇਸੀਮਾਵਾਂ, ਲੋਕਗੀਤਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ।

Course Title: Basics of Research**Course Code: BAT505**

L	T	P	Cr.
3	0	0	3

Total hours: 45

Course Outcomes: On successful completion of this course, the students will be able to:

1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਮਿਆਰੀ ਖੋਜ ਨਾਲ ਜੋੜਣ ਲਈ ਵਿਸ਼ਵ ਪੱਧਰ ਤੇ ਪ੍ਰਚੱਲਤ ਆਲੋਚਨਾ ਵਿਧੀਆਂ ਅਤੇ ਸਿਧਾਂਤਾਂ ਨੂੰ ਸਮਝਣ ਯੋਗ ਹੋਣਗੇ।
2. ਪੰਜ ਡਬੀ ਸਡ ਹਿਤ ਦੀ ਓਢ ਪ੍ਰਮਾ ਖ ਡ ਰ ਡ ਵ ਢ ਓ ਤੇ ਪ੍ਰ ਵਿ ਰ ਤੀ ਓ ਢ ਬ ਡ ਰੇ ਓ ਡ ਲੋ ਚ ਨ ਡ ਤ ਮ ਕ ਸੂ ਝ ਪੈ ਦ ਡ ਹੋ ਏ ਗੀ।
3. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨੈਤਿਕਤਾ ਨਾਲ ਜੋੜ ਦੇ ਹੋਏ ਮੌਲਿਕ ਅਤੇ ਮਿਆਰੀ ਖੋਜ ਲਈ ਪ੍ਰੇਰਿਤ ਹੋਣਗੇ।
4. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੁਰਾਤਨ ਭਾਰਤੀ ਆਲੋਚਨਾ ਦੇ ਸਿਧਾਂਤਾਂ ਨਾਲ ਜੋੜ ਕੇ ਆਲੋਚਨਾ ਦੇ ਇਤਿਹਾਸ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।

Course Content

ਭਾਗ-ਪਹਿਲਾ

8 ਹੋਰਸ

ਖੋਜ: ਪ੍ਰਕਿਰਤੀ, ਪ੍ਰਕਾਰਜ, ਮਹੱਤਵ।

ਖੋਜ ਦੇ ਪ੍ਰਕਾਰ: ਸਿਧਾਂਤਕ, ਇਤਿਹਾਸਕ, ਭਾਸ਼ਾ-ਵਿਗਿਆਨਕ, ਤੁਲਨਾਤਮਕ, ਵਿਆਖਿਆਤਮਕ, ਪਾਠ-ਨਿਰਣਾਮੂਲਕ।

ਭਾਗ-ਅ

7 ਹੋਰਸ

ਖੋਜ-ਪ੍ਰਕਿਰਿਆ: ਖੋਜ ਵਿਸ਼ੇ ਦੀ ਚੋਣ, ਰੂਪ-ਰੇਖਾ ਦੀ ਤਿਆਰੀ, ਖੋਜ-ਸੰਦ, ਆਧਾਰ ਸਮੱਗਰੀ ਦਾ ਇੱਕਤਰੀਕਰਣ।

ਭਾਗ-ੳ

10 ਹੋਰਸ

ਖੇਤਰੀ ਖੋਜ ਦੇ ਸੰਦ ਅਤੇ ਪ੍ਰਕਿਰਿਆ, ਖੋਜ ਦੀ ਪੇਸ਼ਕਾਰੀ, ਸਟਾਈਲ-ਸ਼ੀਟ, ਹਵਾਲੇ, ਪੈਰ-ਟਿੱਪਣੀਆਂ, ਸਿੱਟੇ ਅਤੇ ਸੂਤਰੀਕਰਣ, ਪੁਸਤਕਾਵਲੀ, ਪਰਿਸ਼ਿਸ਼ਟ ਤੇ ਕ੍ਰਮਸੂਚੀ।

ਭਾਗ-ਸ

10 ਹੋਰਸ

ਖੇਤਰੀ ਖੋਜ ਦੇ ਸੰਦ ਅਤੇ ਪ੍ਰਕਿਰਿਆ, ਖੋਜ ਦੀ ਪੇਸ਼ਕਾਰੀ, ਸਟਾਈਲ-ਸ਼ੀਟ, ਹਵਾਲੇ, ਪੈਰ-ਟਿੱਪਣੀਆਂ, ਸਿੱਟੇ ਅਤੇ ਸੂਤਰੀਕਰਣ, ਪੁਸਤਕਾਵਲੀ, ਪਰਿਸ਼ਿਸ਼ਟ ਤੇ ਕ੍ਰਮਸੂਚੀ।

ਸੂਚਨਾਤਕਨਾਲੋਜੀ ਅਤੇ ਖੋਜਕਾਰਜ ਵਿਚ ਸੂਚਨਾਤਕਨਾਲੋਜੀ ਦੇ ਰੂਪ: ਇੰਟਰਨੈੱਟ ਅਤੇ ਹੋਰ ਸੋਫਟ-ਸਰੋਤ (ਸੀ.ਡੀ. ਆਦਿ)। ਇੰਟਰਨੈੱਟ: ਇੱਕ ਖੋਜ ਸਰੋਤ ਵਜੋਂ, ਹਵਾਲੇ ਦੇਣ ਦੀ ਵਿਧੀ, ਇੰਟਰਨੈੱਟ ਉੱਤੇ ਖੋਜ ਸਰੋਤਾਂ ਦੀ ਪਰਮਾਣਿਕਤਾ।

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion.

ਪੁਸਤਕਸੂਚੀ

- ਪਿਆਰਸਿੰਘ (ਡਾ.) ਖੋਜ, ਸਿਧਾਂਤ ਤੇ ਵਿਹਾਰ, ਪਬਲੀਕੇਸ਼ਨ ਬਿਊਰੋ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 2015
- ਹਰਿਭਜਨ ਸਿੰਘ, ਸਾਹਿਤ ਅਧਿਐਨ, ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ, 2002
- ਹਰਿਭਜਨ ਸਿੰਘ, ਸਾਹਿਤ ਸ਼ਾਸਤਰ, ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ, 2002
- ਹਰਿਭਜਨ ਸਿੰਘ, ਸਾਹਿਤ ਵਿਗਿਆਨ, ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ, 2002
- ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ, ਸਾਹਿਤਾਰਥ, ਲਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ, 1957
- ਖੋਜ-ਪੱਤ੍ਰਿਕਾ (ਸਾਹਿਤਕ ਵਾਦ ਅੰਕ) ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ

Course Title: English literature

Course Code:

BAT506

L	T	P	Cr
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to:

1. Critically analyze and evaluate British literature.
2. Show familiarity with major literary works by British writers of 19th century.
3. Exercise their ability to think clearly and cogently.
4. Construct an argument in writing, state facts clearly and cogently and recognise and use the formats of different forms of writing like letters and essays.

Course Content

UNIT-I

11 hours

Murder in Cathedral: T. S. Eliot

UNIT-II **12 hours**

The Subjugation of Women by J. S. Mill

UNIT-III **11 hours**

Mayor of Casterbridge – Thomas Hardy

UNIT-IV **11 hours**

Vanity Fair: William Makepeace Thackeray

Transaction Mode: Brain Storming, Quiz, Group Discussion, Open Talk.**Suggested Readings**

- Abrams, M.H. *A Glossary of Literacy Terms*, Cengage Learning India, 2015.
- Mill, J.S. *The Subjugation of Women*. CreateSpace Independent Publishing Platform, 2017.
- Hardy, Thomas. *The Mayor of Casterbridge : the Life and Death of a Man of Character*. Penguin Books, 1997.
- *Twentieth Century Reader's Guide to Literacy Terms*, OUP, 1997.
- Baldick, Chris. *Oxford Concise Dictionary of Literary Terms*. Oxford University Press, 2004.

Course Title: ਚੋਣਵੀਂ ਪੰਜਾਬੀ

L	T	P	Cr.
3	0	0	3

Course Code: BAT507**Total Hours: 45****Course Outcomes: On successful completion of this course, the students will be able to:**

1. ਰੇਖਾ ਚਿਤਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ।
2. ਸ਼ਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ।
3. ਪੰਜਾਬੀ ਸਾਹਿਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਗੇ।
4. ਪੰਜਾਬੀ ਅੰਲਕਾਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਗੇ।

Course Content

ਭਾਗ-ੳ		10
ਹੋਰਸ	1. ਰੇਖਾਚਿੱਤਰਅਰਥ, ਪਰਿਭਾਸ਼ਾਅਤੇਸੰਕਲਪ	
ਭਾਗ-ਅ		15 ਹੋਰਸ
	2. ਹੁਸੀਨਚਿਹਰੇ (ਰੇਖਾਚਿੱਤਰ) ਬਲਵੰਤਗਾਰਗੀ।	
ਭਾਗ-ੲ		10
ਹੋਰਸ	3. ਪੰਜਾਬੀਸਾਹਿਤਦਾਇਤਿਹਾਸ (1947 ਤੋਂ 2000 ਤੱਕ)	
ਭਾਗ-ਸ		10 ਹੋਰਸ
	4. ਸਾਹਿਤਪਰਿਭਾਸ਼ਾਅਤੇਤੱਤ, ਸਾਹਿਤਪ੍ਰਕਿਰਤੀਅਤੇਪ੍ਰਯੋਜਨ, ਸਾਹਿਤਤੇਸਮਾਜ, ਸਾਹਿਤਤੇਸ਼ਖਸੀਅਤ, ਸਾਹਿਤਤੇਮਨੋਵਿਗਿਆਨ।	

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion

ਪੁਸਤਕ ਸੂਚੀ :

- ਜਗਬੀਰ ਸਿੰਘ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ(ਆਦਿ ਕਾਲ ਤੇ ਭਗਤੀ ਕਾਲ) ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।
- ਪਰਮਿੰਦਰ ਸਿੰਘ, ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ ਅਤੇ ਗੋਬਿੰਦ ਸਿੰਘ ਲਾਂਬਾ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉਤਪਤੀ ਤੇ ਵਿਕਾਸ, ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ ਲੁਧਿਆਣਾ।
- ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ, ਸਮੀਖਿਆ ਪ੍ਰਣਾਲੀਆਂ, ਪੰਜਾਬ ਸਟੇਟ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ।

Course Title: ਹਿੰਦੀ ਸਾਹਿਤਯ ਂਵ ਸੰਸਕ੍ਰਿਤਿ

Course Code: BAT508

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. ਢਾਤ੍ਰੋਂ ਕੋ ਹਿੰਦੀ ਸਾਹਿਤਯ ਕੇ ਖਕਿਤ ਕਾਲ ਕੇ ਤਦਯ ਂਵ ਪਰਿਸਥਿਤਿਯੋਂ ਕੀ ਯਾਨਕਾਰੀ ਹੋਗੀ
2. ਢਾਤ੍ਰੋਂ ਕੋ ਖਕਿਤ ਕਾਲ ਕੇ ਸੰਤ ਕਵਿਯੋਂ ਂਵ ਤਨਕੀ ਸਾਹਿਤਯਿਕ ਕ੍ਰੁਤਿਯੋਂ ਕੀ ਯਾਨਕਾਰੀ ਹੋਗੀ
3. ਢਾਤ੍ਰੋਂ ਕੋ ਹਿੰਦੀ ਸਾਹਿਤਯ ਕੇ ਆਧੁਨਿਕ ਕਾਲ ਕੇ ਤਦਯ ਂਵ ਪਰਿਸਥਿਤਿਯੋਂ ਕੀ ਯਾਨਕਾਰੀ ਹੋਗੀ
4. ਢਾਤ੍ਰੋਂ ਢਾਯਾਵਾਦੀ, ਪ੍ਰਕ੍ਰੁਤਿਵਾਦੀ ਂਵ ਪ੍ਰਯੋਗਵਾਦੀ ਕਵਿਤਾ ਕੀ ਯਾਨਕਾਰੀ ਹੋਗੀ

Course Content

भाग- क

12 ीवनते

कवितालोक : सं0 डॉ0 शिवकुमार शर्मा, पब्लिकेशनब्यूरो, चण्डीगढ़ द्वारा प्रकाशित
कबीर, रैदास, गुरु नानकदेव, सूरदास, मीराबाई

भाग- ख

11 ीवनते

गोदान (उपन्यास) : मुंशीप्रेमचन्द द्वारारचित

भाग- ग

10 ीवनते

प्रतिनिधि कहानियां : जयशंकरप्रसाद (प्रथम पांचकहानियां) राजकमलप्रकाशन, दिल्ली

भाग- घ

12 ीवनते

हिन्दीसाहित्य का भक्तिकाल : हिन्दीसाहित्य में भक्ति का उदय परिस्थितियां, सन्तकाव्य, प्रमुख कवि:-नामदेव,

दादुदयाल, सुन्दरदास

हिन्दीसाहित्य का आधुनिककाल : कविता

भारतेन्दूहिन्दीकविता की प्रवृत्तियां

द्विवेदीयुगीनहिन्दीकविता की प्रवृत्तियां

छायावाद

प्रगतिवाद

प्रयोगवाद

Transaction Mode

Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

सहायकपुस्तकें:

- गुप्त (डॉ.), गणपति चंद्र 'हिंदी साहित्य का वैज्ञानिक इतिहास' (दो खंड), लोकभारती प्रकाशन, इलाहाबाद, पंचम संस्करण, 1999
- सिंह, डॉ. नामवर, कविता के नये प्रतिमान, राजकमल प्रकाशन, 2009
- नगेंद्र (डॉ.) (सं), हिंदी साहित्य का इतिहास, मयूर पेपरबैक्स, नोएडा, चौबीसवां संकरण, 1997
- कुमार, डॉ. प्रेम, कविता का वैचारिक परिप्रेक्ष्य, कलमकार पब्लिकेशन्स, दिल्ली, 2022
- शुक्ल रामचंद्र, हिंदी साहित्य का इतिहास, नागरी प्रचारिणी सभा, वाराणसी, छत्तीसवाँ संस्करण, 2008

- चतुर्वेदी रामस्वरूप, हिंदी साहित्य और संवेदना का विकास, लोकभारती प्रकाशन, इलाहाबाद, नवम संस्करण, 1998
- मंगल, लालचंद गुप्त हिंदी साहित्य का इतिहास, यूनिवर्सिटी बुक सेंटर, कुरुक्षेत्र, द्वितीय संस्करण, 1999

Course Title: Statistics

Course Code: BAT509

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Evaluate the relationship between different variables by using correlation and regression method.
2. Calculate the average value by using mean, median, mode.
3. Measure the Mean Deviation, Quartile Deviation, and Standard Deviation.
4. Develop the computational skill of Estimating the time series and trend analysis.

Course Content

UNIT-I

12 hours

Introduction to Statistics and scope: Introduction: Definition and scope of Statistics concepts of statistical population and sample. Scales of measurement - nominal, ordinal, interval and ratio. Variables and attributes, Diagrammatical Representation of Data, Summarization of Data: Frequency Distribution and Graphical Presentation.

UNIT-II

11 hours

Central Tendency: Measures of Central Tendency: mathematical and positional. Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation, moments, measures of Skewness and kurtosis.

UNIT-III**12 hours**

Bivariate Data Analysis: Regression and Correlation Methods: Bivariate data: Definition, scatter diagram, simple correlation, rank correlation. Trivariate Data: Partial and Multiple Correlation Coefficients. Fitting of Simple linear and quadratic regression lines using principle of least squares.

UNIT-IV**10 hours**

Theory of Attributes: Association of Attributes: Theory of attributes and consistency of data, independence and association of attributes. Measures of association and contingency for 2 x 2 and r x s contingency tables.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Sanchati, D.C. and Kapoor, V.K. (1993). *Business Mathematics*, New Delhi, Sultan Chand & Sons.
- Gupta, S.C. (2011). *Fundamentals of Statistics*, Bombay, Himalaya Publishing House.
- Aggarwal, D R (2005). *Quantitative Methods*, Vrinda Publications, New Delhi.
- Pillai, R. S. & Bagavathi, N (2010). *Statistics Theory and Practice*, Seventh Revised Edition, S. Chand & Company Ltd., New Delhi.

Course Title: Foundation of Social Thought

L	T	P	Cr.
3	0	0	3

Course Code: BAT510**Total Hours: 45**

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Comprehend the process of socialization, its agencies and major theories.

2. Familiarize with the theories of social evolution.
3. Elucidate the concept, nature and dimensions of personality
4. Define the perspectives of Emile Durkheim and Mahatma Gandhi.

Course Content

UNIT-I

12 hours

Positivism: Comte's Law of three stages, Social Static & Dynamics, Evolutionism- Spencer's Evolutionary Approach, Conflict: Marx's concept of Dialectical Historical Materialism, Class & Class Conflict, Coser's Approach to Social Conflict, Personality: Meaning, Nature, Biological, Social and Cultural Factors in Personality Development

UNIT-II

11 hours

Emile Durkheim: Social Facts, Sociology of Religion, Division of Labor, Organic and Mechanical Solidarity, Types of Suicide, Karl Marx: Dialectical Materialism, Theory of Class Struggle, Alienation, Max Weber: Ideal Type, Verstehen, Bureaucracy

UNIT-III

12 hours

Radhakamal Mukherjee: Personality, Society, Values; Civilization, D. P. Mukerji: Tradition and Modernity; Middle Class

UNIT-IV

10 hours

Mahatma Gandhi: Non-violence; Satyagraha, Swaraj, Sarvodaya, B. R. Ambedkar: Social Reconstruction; Caste and Its Critique

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration.

Suggested Readings

- Abraham, F and Morgan J.H. 1985. *Sociological Thought*. Delhi: MacMillan India.
- Haralambos, M.1998. *Sociology: Themes and Perspectives*. New Delhi: Oxford University Press.

- Jammu, P.S. and Bhatnagar, G.S. (eds). 1989. *SamajVigyanikSidhant* (SamajikVigyanPattar No. 26, 27, 28). Punjabi University, Patiala.
- Abraham, Francis. 1982. *Modern Sociological Theory*. Delhi: Oxford University Press.
- Aron, R. 1965. *Main Currents in Sociological Thought*, Vol- (1 & 2) London: Penguin Books.
- Gandhi, M.K. 1946. *Hind Swaraj or Indian Home Rule*. Ahmedabad: Navajivan.
- Timasheff, N.S. and Theodorson, G. 1976. *Sociology Theory*, New York: Random House.
- Mann, Michael(ed) 1994. *Macmillan Student Encyclopedia of Sociology*. London: Macmillan Press.
- Zeitlin, I.M. 1969. *Ideology and the Development of Sociological Theory*. New Delhi: Prentice Hal

Course Title: Political Science-V

Course Code: BAT511

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Explain the historical events that took place at the international level
2. Discuss the Role of United Nations Organization in contemporary international system.
3. Categorize International Relations Approaches.
4. Identify the key international actors which shaped the international political system.

Course Content

UNIT-I

9 hours

1. International Politics: Meaning, Nature and Scope
2. International Politics Approaches: Realist, Idealist and Difference between both.

UNIT-II

12 hours

3. National Power: Meaning, Elements, kinds and methods.
4. System of Balance of Power.
5. Collective Security.

UNIT-III

11 hours

6. Cold War in International Politics.
7. Uni-Polar, Bi -Polar and Multi-Polar System.

UNIT-IV

13 hours

8. Nature of Emerging World Order.
9. United Nations: Aims, Objectives and Principles.
10. Globalization: Meaning, Feature and its Importance.

Transaction Mode: Lecture, Group Discussion, Quiz, Open Talk, Self-study, Assignment

Suggested Readings

- Waltz Kenneth & Neal. Man.(2001).The state, and war: A theoretical analysis. Columbia University Press.
- Mearsheimer, John J. (2001.) The tragedy of great power politics. WW Norton & Company.
- Rosecrance, Richard.(1996).The Clash of Civilizations and the Remaking of World Order. By Samuel P. Huntington. New York: Simon and Schuster.
- Waltz, Kenneth N.(2010).Theory of international politics. Waveland Press.
- Kissinger, Henry.(1994).Diplomacy. Simon and Schuster.
- Slaughter, Anne-Marie.(2009).A new world order. Princeton University Press.
- NCERT text book, <http://ncert.nic.in/textbook/pdf/leps101.pdf>
- Andre GunderFrank.(1977).Dependence is Dead, Long Live Dependence and the Class Struggle : An Answer to Critics, World Development.
- Barry Buzan and Ole Weaver(2003).Regions and Powers: The Structure of International Security, Cambridge, Cambridge University Press.

- Dhirenda Dwivedi. (2005). Collective Security under United Nations, New Delhi: Kanishka.
- Francis Fukuyama .(1992). The End of History and the Last Man, New York: Avon, G.K. Cahdha (ed.), WTO and the Indian Economy, New Delhi.
- 5. Hedley Bull. (1995). The Anarchial Society: A Study of Order in World Politics, 2nd edn., London : Macmillan.
- James Lee Ray & Juliet Kaarbo .(2005). Global Politics, Boston: Houghton Mifflin Company .
- John Baylis and Steve Smith .(2001). The Globalization of World Politics: An Introduction to International Relation, Oxford University Press.
- Ghai U. R. Indian. (2009). Political System, New Delhi.
- Burton, John (1990). Conflict: Resolution and Prevention (London: Macmillan.

Course Title: History of World

Course Code: BAT512

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Provide information of Renaissance of Europe.
2. Provide information regarding background of Political revolutions.
3. Develop understanding the causes & effects of Social reforms.
4. Understand the rise of Napoleon and how Metternich dominated the European politics.

Course Content

UNIT-I

12 hours

Rise of Modern Age: Renaissance and Reformation.

French Revolution of 1789: its causes and effects,

Napoleon; His reforms, causes of his downfall.

UNIT-II

11 hours

Congress of Vienna

Nationalism

Crimean War: Causes and effects.

UNIT-III

12 hours

Industrial Revolution -Industrial Revolution and its effects.

The Russian Revolution of 1917-causes and significance.

Causes of the First World War and Second World War.

UNIT-IV

10 hours

Chinese Revolution of 1949: its causes and effects.

Maps:a)Vienna Congress. b) Unification of Italy c) Europe in 1945.

Transaction Mode: Lecture, Problem Solving, blended learning, Discussion & Demonstration, and Case Studies.

Suggested Readings

- Hazen, C.D. : Modern Europe upto 1945 (English), PP. 39-261, 301-390, 448-591, 639-708.
- Ketelbey, C.D.M.,A History of Modern Times (English), PP. 227-342, 385-408,
- Carr, E.H., International Relations between the Two World Wars, 1919-1939.
- Ergang, Robert,Europe in our Times, PP. 3-24, 87-194, 227-288, 313-349, 465-498.
- Fay, S.B. The Origins of the World War.

Course Title: The Sikh Scripture, Thoughts and Institutions

Course Code: BAT513

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Outcomes: On successful completion of this course, the students will be able to

1 Learn that the Sikh scripture opens with Onkar, its Mul Mantar and fundamental prayer about One Supreme Being (God).

2 Understand that Sikhism emphasizes simran (meditation on the words of the Guru Granth Sahib), that can be expressed musically through kirtan or internally through Nam Japo (repeat God's name) as a means to feel God's presence.

3 Understand that sikhism teaches followers to transform the "Five Thieves" (lust, rage, greed, attachment, and ego).

4 Know that in Sikhism secular life is considered to be intertwined with the spiritual life.

Course Content

UNIT-I

12 hours

ਸਿੱਖਧਰਮ ਦੇ ਮੁੱਢਲੇ ਸ਼੍ਰੋਤ

1. ਸ੍ਰੀਗੁਰੂਗ੍ਰੰਥਸਾਹਿਬ: ਸੰਪਾਦਨ ਅਤੇ ਵਿਚਾਰਧਾਰਾ
2. ਦਸਮਗ੍ਰੰਥ: ਮੁੱਢਲੀ ਜਾਣ-ਪਛਾਣ
3. ਵਾਰਾਂਭਾਈਗੁਰਦਾਸਜੀ : ਸਿੱਖਪੰਥ ਦਾ ਸਰੂਪ , ਵਿਚਾਰਧਾਰਾ

UNIT-II

11 hours

ਪ੍ਰਮੁੱਖ ਬਾਣੀਆਂ

4. ਜਪੁ: ਵਿਸ਼ਾ-ਵਸਤੂ
5. ਸੁਖਮਨੀ: ਵਿਚਾਰਧਾਰਾ
6. *bwrhmwhmwJ: pRikrqlicqrnAqymnu`Kljl vndwaudyS*

UNIT-III

12 hours

ਪ੍ਰਮੁੱਖ ਸਿਧਾਂਤ

7. ਅਕਾਲਪੁਰਖ
8. ਸ਼੍ਰੀਸ਼੍ਰੀ ਰਚਨਾ
9. ਸ਼ਹਾਦਤ

UNIT-IV

10 hours

10. $lMgr/pMgq, sMgq$
11. $Drmsw/AqygurduAwrw$
12. $guirAwelsMsQw$

ਟ੍ਰਾਂਜੈਕਸ਼ਨ ਮੋਡ: ਲੈਕਚਰ, ਸਮੱਸਿਆ ਹੱਲ, ਮਿਸ਼ਰਤ ਸਿਖਲਾਈ, ਚਰਚਾ ਅਤੇ ਪ੍ਰਦਰਸ਼ਨ, ਅਤੇ ਕੇਸ ਅਧਿਐਨ।

ਸਹਾਇਕਪੁਸਤਕਾਂ:

1. ਸ਼੍ਰੀਗੁਰੂਗ੍ਰੰਥਸਾਹਿਬਵਿਲੱਖਣਤੱਤ, ਡਾ. ਵਜੀਰਸਿੰਘ, ਪੰਜਾਬੀਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।
2. ਆਸਾਦੀਵਾਰਦਾਟੀਕਾ, ਸੰਪਾਦਕਡਾ. ਰਤਨਸਿੰਘਜੱਗੀ, ਆਰਸੀਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ।
3. ਸੁਖਮਨੀਸਾਹਿਬਦਾਦਾਰਸ਼ਨਿਕਆਧਾਰ, ਡਾ. ਜੋਗਿੰਦਰਸਿੰਘ।
4. ਗੁਰਮਤਿਵਿਚਾਰਧਾਰਾ, ਪ੍ਰੀਤਮਸਿੰਘ, ਸ਼ਘਫਛ, ਸ਼੍ਰੀਅੰਮ੍ਰਿਤਸਰਸਾਹਿਬ।
5. ਬਾਰਹਮਾਹਾਸਟੀਕ, ਸ਼ਘਫਛ, ਸ਼੍ਰੀਅੰਮ੍ਰਿਤਸਰਸਾਹਿਬ।

Course Title: Math 5th (Real Analysis)
Course Code: BAT514

L	T	P	Cr.
3	0	0	3

Total Hours: 45

Course Learning Outcomes: On completion of this course, the successful students will be able to:

1. Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.
2. Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence, comparison test, Cauchy's root Test, ratio Test, Rabbe's of an infinite series of real numbers.
3. Equipped with the knowledge of improper integrals, and their convergences, convergence and uniform convergence of sequences and series of functions for further applications in therelevant fields.

4. Utilize the analytic and technical skills necessarily at practical field and analyse the real analysis for further higher studies.

Course Content

UNIT-I

12 hours

Continuity and Differentiability of functions: Continuity of functions, Uniform continuity, Differentiability, Taylor's theorem with various forms of remainders. Integration: Riemann integral-definition and properties, integrability of continuous and monotonic functions, Fundamental theorem of integral calculus, Mean value theorems of integral calculus.

UNIT-II

12 hours

Sequence and Series: Sequences, theorems on limit of sequences, Cauchy's convergence criterion, infinite series, series of non-negative terms, Absolute convergence, tests for convergence, comparison test, Cauchy's root Test, ratio Test, Rabbe's, Logarithmic test, De Morgan's Test, Alternating series, Leibnitz's theorem.

UNIT-III

11 hours

Improper Integrals: Improper integrals and their convergence, Comparison test, Ditchlet's test, Absolute and uniform convergence, Weierstrass M-Test, Infinite integral depending on a parameter.

UNIT-IV

10 hours

Uniform Convergence: Point wise convergence, Uniform convergence, Test of uniform convergence, Weierstrass M-Test, Abel's and Ditchlet's test, Convergence and uniform convergence of sequences and series of functions.

Transaction Mode- Video Based Teaching, Collaborative teaching, Group Discussion, ted talks, E team Teaching, Quiz.

Suggested Readings

- Walter Rudin, (1976), *Principle of Mathematical Analysis* (3rd edition) McGraw-Hill Kogakusha, International Student Edition.
- Bartle, Robert G., & Sherbert, Donald R. (2015). *Introduction to Real Analysis* (4th ed.). Wiley India Edition. New Delhi.
- T. M. Apostol, (1985), *Mathematical Analysis*, Narosa Publishing House, New Delhi.
- S. C. Malik and Savita Arora, (2012), *Mathematical Analysis*, New Age International Pvt. (Ltd).

- Bilodeau, Gerald G., Thie, Paul R., & Keough, G. E. (2010). *An Introduction to Analysis* (2nd ed.). Jones and Bartlett India Pvt. Ltd. Student Edition. Reprinted 2015.
- Denlinger, Charles G. (2011). *Elements of Real Analysis*. Jones and Bartlett India Pvt. Ltd. Student Edition. Reprinted 2015.
- Suggested digital platform: NPTEL/SWAYAM/MOOCs

Course Title: Physical Education

Course Code: BAT515

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. know about the effects of muscular, respiratory and circulatory systems
2. Understand the balanced diet
3. Aim and principles of sports training
4. Importance of physical fitness

Course Content

THEORY

UNIT-I

12 hours

Massage:-Classification and their effect, Effect of Exercise on muscular respiratory and circulatory systems.

Balance Diet: -Component sources and function of each component.

Doping: - Meaning, types, bad effects and control.

UNIT-II

10 hours

Sports Training: - Meaning, aim, objective, principles of training.

Sports coaching: - Meaning, aim, objective, principles of coaching.

Load: - Meaning, principals, types and methods of loading.

UNIT-III

13 hours

Training method: - Circuit, Interval, Fartlek, Weight Training and Cross Country.

Components of Physical Fitness:- Speed, strength, endurance, agility, and flexibility.

Conditioning: - Main principles and methods of general and specific conditioning.

UNIT-IV**10 hours****Motion:** Meaning, types and laws.**Lever System:** Meaning, types and law.**Force:** Meaning, types and centre of gravity.**PRACTICAL**

Stipple Chase	8M
Throwing Event	8M (Any One Event)
Jumping Event	8M (Any One Event)
Taekwondo Hockey, Softball	16M (Any One Game)

Suggested Readings

- Kang G. S. Deol N. S. – An introduction to Health and Physical Education 21st century Patiala 2008.
- Desch and Burk: kinesiology and applied anatomy. 2nd ed. Lee and Febiger, 1963.
- Wells: Kinesiology, 4th edition W.B.Saunders, 1966.
- Mathews D. K. & E.L. Fox: the physiological basis of Physical Education and Sports, 2nd ed., Philadelphia. K. B. Saunders & Co. 1984
- Shaver L. J. Essentials of Exercise Physiology Kamla Nagar Surjeet, 1995
- Dick, Frank : Sports Training Principles. London Lepus Book, 1980
- Jensen Fisher: Scientific Basis of Athletic Conditioning Philadelphia, Lee and Febiger, 1975.
- L. Matveyer : Fundamentals of sports Training-1981
- Ajmer Singh and Jagtar Singh Gill: Essentials of Physical education and Olympic movement Kalyani Publishers, Ludhiana. 2004.

Course Title: Drafting Pattern Making & Garment Lab**Course Code: BAT516**

L	T	P	Cr.
2	0	2	3

Total Hours: 45**Course Learning Outcomes: On successful completion of this course, the students will be able to**

1. Understand the drafting of men's and women's professional garments by using different methods.
2. Learn about the materials and techniques used to construct professional dresses of men and women.

3. Learn about Construct men's and women's shirt, trouser and waist coat.
4. Gain and enhance Skills in Garment Construction.

Course Content

UNIT-I	12hours
Drafting of:	
Shirt of Men's/Woman's	
Trouser of Men's/Woman's	
UNIT-II	9 hours
Waist coat	
Punjabi Dress	
UNIT-III	13 hours
Garment Construction:	
Shirt of Men's/Woman's	
Trouser of Men's/Woman's	
UNIT-IV	11 hours
Waist coat	
Punjabi Dress	

Transaction Mode: Group Discussions, Questions, Project Based Learning, Video Based Teaching

Suggested Readings

- Mullick, Lata Prem, 2010 *Garment Construction Skills*, Kalyani Publishers, New Delhi
- Hilde Jaffe and Nurie Relis, 2011 *Draping for Fashion Design*, Prentice Hall Crawford
- Amaden, *The Art of Fashion Draping*, Fairchild Publishers
- Carr Harold & Latham Barbara, 2008 *The Technology of Clothing Manufacture*, Oxford

Course Title: Resource Management and Interior Decoration
Course Code: BAT517

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Enable to manage of different resources for livelihood
2. Gain the knowledge to simplification of different work inappropriate time and elements of art
3. Develop an ability to design arrangements in their house
4. Development of the skills for management, finance, recourses management

Course Content

THEORY

UNIT-I

12 hours

Resource Management - Definition, importance and steps in the process of Management, Family Resources - Definition, classification and management of resources

Money management- Meaning, types of income, process of money management, budgeting, keeping records.

UNIT-II

10 hours

Energy management: - Process of energy management, fatigue, rest periods.

Time management – Process of time management, peak loads.

UNIT-III

13 hours

Work simplification - Meaning and methods. Kitchen & Types of kitchen

Elements and Principles of art. Colour - Characteristics and different schemes, Psychological effects of colours

UNIT-IV

10 hours

Flower arrangement

Housing a) Selection of House site b) Factors to be considered while designing a house Orientation, Privacy, Grouping of User's Area, Roominess Circulation, Sanitation, Light & Ventilation, Aesthetes, Flexibility, Cost.

PRACTICAL

1. Study of colour wheel, use of colours in different rooms.
2. Flower arrangement for different occasions - Fresh & Dry
3. Making Rangolies
4. Pot making – by painting and by decoration
5. Table manners & Table setting including napkin folding.
6. Preparation of one menu card,
7. Drawing of layout plans for different rooms
8. One decorative/utility article from waste material.

Suggested Readings

- Management for Indian Families : Gross & Crandall
- Management in family living : Nickell& Dorsey
- Home Furnishing : A.H. Rutt 4- Home with characters : Graig& Rush
- Home Management families : M.K. Manu
- Ruth E. Deacon. Francille M. Firebaugh (1975): Family Resource
- Management – Principle and Application Roy Houghton Miffin Company Irma H. Gross Elizabeth GrandallMarjoris M. Knoll (1973): New Jersey
- DevdasRajamal. P. The meaning of Home Science, Sri Avinashlingam
- Home Science College, Cambatore.
- P. Kalpana R. “What is Home Science,” Evira Publications, Vadodra.
- L. Matveyer : Fundamentals of sports Training-1981
- Ajmer Singh and Jagtar Singh Gill: Essentail of Physical education and Olympic movement Kalyani Publishers, Ludhiana.2004.

Course Title: Music**Course Code: BAT518**

L	T	P	Cr.
2	0	2	3

Total Hours: 45

Course Learning Outcomes: On successful completion of this course, the students will be able to

1. Learn about the music in the Vedic period, the Ramayana and the Mahabharat.

2. Studies the works on Indian music by medieval.
3. Elementary knowledge of Raga-Raag vargikaran.
4. Studies about the theoretical aspects raags.

Course Content

UNIT-I

8 hours

1. Explain the following Upaj, Mukhda, bol-Alap, khatka, meend, bol-bant, Ghamak,.
2. Knowledge of written talas in single and double.
3. Elementary knowledge of Raga-Raag vargikaran.

UNIT-II

6 hours

1. Gharana, its importance & contribution towards khayal gayan.
2. Knowledge of Alap, Taan and its various forms

UNIT-III

18 hours

1. Detailed study of taanpura and sahayaknaad
 2. Detailed knowledge of dhrupad and dhamar styles of singing.
 3. Description of raags and taals prescribed in the course
- a) Kedar b) Bhimplasi c) Bihag

UNIT-IV

13 hours

1. Detailed description and notation of the prescribed Ragas (Khayal) and Talas given below:
Ragas: Bilawal, Kalyan
Talas: Dadra, Kehrwa, Teental
2. Elementary knowledge of the following pages:
Alhaiya Bilawal, Shudh kaliaan

Transaction Mode: Lecture, Problem Solving, Discussion, Demonstration

Suggested Readings

- Dr. Davinder Kaur: (1 January 2017) *SangeetRoop*(Part-I)
- Dr. Premlata Sharma: (1 January) *Sangeet Manual*
- Dr. Yaspal Sharma: (1998) *Gayan Kalan*

- Dr.SumanLata: *Hindustani ShastrisangeetSidhantavamVyavhar*

Semester-VI

Course Title: Project

Course Code: BAT601

L	T	P	Cr
NA	NA	NA	24

Course Learning Outcomes: After successful completion of this course, the students will be able to

- (i) Identify local problems.
 - (ii) Design techniques for solutions of identified problems.
 - (iii) Evaluate and apply solutions in the local area.
 - (iv) Analyze and explore different solutions applicable at regional, national and global level.
- The students will be sent to nearby villages to identify community based problems during first two weeks of the semester.
 - They will submit their proposals for project by 3rd week.
 - Research Report will be presented through seminar during 10th week of the semester.
 - Final evaluation will be conducted during 14th week.

The criteria of evaluation will be:

- | | | |
|------|---|----|
| i. | Significance and feasibility of the problem | |
| | 10 | |
| ii. | Method and procedure for the Research | 10 |
| iii. | Project Report | 10 |
| iv. | VIVA | 20 |

Total Marks

50