

VASANTRAO NAIK SHIKSHAN PRASARAK MANDAL, AURANGABAD

VASANTRAO NAIK MAHAVIDYALA

Chikalthana Road,

Aurangabad 431003

Program Outcome, Program Specific Outcome and Course Outcome

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Program Outcome, Program Specific Outcome and Course Outcome

FACULTY OF ARTS

B.A. (ENGLISH)

Programme Outcome

- To make the students obtain language skills
- To make the students competent in grammar structures and Phonetics
- To acquire language and grammatical skills
- Introduction to various textual literary forms
- To develop usage of words, sentences and grammar practically
- To promote the students to use Modern English in daily life
- To introduce the students to appropriate literary strategies to read literature
- To develop research attitude
- To make students a cultured citizen, well teacher and skilled administrator.
- To make the students well prepared to acquire professional opportunities in social service sector

Programme Specific Outcome

- To strengthen the communication skills
- To enable the students to read, write and speak correctly through literary content.
- To develop understanding about prose, poetry and grammar through sentence structures and literary genres
- To create awareness about the conventions of diverse literary genres
- To develop professional skills in communication and grammar
- Introduce students to multi-business skills, to inspire students for enterprise
- To understand literary background, Essay, epic, drama, and novel.
- To understand literary background, ballad, novel dramatic monologue, drama, romantic lit.,
- To study literary forms of literature like drama, novel, poetry with it's socio-political, cultural and historical contexts.
- To make the students technically strong to analyse text.
- To study and analyse literary forms like drama, poetry and novel with its socio-political, cultural and historical contexts
- To develop writing skills, techniques and textual analysis

Course Outcome

Paper No. II Compulsory English Learning Language Skills –I

• To acquaint students to Prose, poetry and grammar (literary genres)

Paper No. II Written and Spoken Communication

• To develop four language skills

Paper No. I B.A. optional The Structure of English

• To provide the students advanced knowledge of speech articulation and use of language

Paper No.V optional Reading Literature

• To create awareness about literary genres

Paper No. IV Comp. English Learning Language Skills

• To develop writing and literary skills

Paper No. III & IV English for Entrepreneurs

• To help students achieve excellent business communication skills for better employment. To prepare students to acquire writing skills (Business English) and prepare them for job opportunities. To inspire them for entrepreneurship

Paper No.V optional - Literature in English 1550-1750

• To enable the students to read and appreciate various forms of literature of the period and critically interact with them from different perspective. To introduce the students to appropriate literary strategies to read literature.

Paper No.VI optional - Literature in English 1750-1900

• To enable the students to read and appreciate various forms of literature of the period and critically interact with them from different perspective

Paper No.IX & XIII optional Twentieth century English Literature

• To make the students understand how the Twentieth literature of the modern period relates to the important trends of the period.

Paper No.X & XIV optional Introduction to Literary Criticism

• To develop critical attitude to analyse literature. To make the students competent as critics

Paper No.XIB optional Indian Writing in English

• To differentiate the contexts of British and Indian Writing in English. To study pattern of Indian writing and understand Indian mode of thinking. To achieve perfection in writing skills

Paper No.XII & XVI optional Project work on History of English Literature

Study of historical knowledge of English literature

B.A. (HINDI)

Programme Outcome

- साहित्य का अस्वादन
- अभिरूचीका परिसंस्कार
- मुल्यो की स्थापना
- वर्तमान की व्याख्या करणे में सक्षम बनाना
- रोजगार की क्षमता का विकास
- समानता की भावना का विकास
- सुरोग्य नागरिक का निर्माण

Programme specific outcome

- सामाजिक समस्याओं की समझ निर्माण
- साहित्य के विविध रूपों का परिचय
- नैतिक मुल्यों के संस्कार
- हिंदी के विविध रूपों का परिचय
- पत्रलेखन की क्षमता का विकास
- प्रयोजनमूलक हिंदी के प्रयोग की क्षमता का निर्माण
- अनुवाद को वर्तमान सांस्कृतिक, सामाजिक एवं प्रयोजनपरक प्रविधियों से जोडते हूए उसके व्यावहारिक पक्ष को विकसित करना
- भाषा कौशल का विकास

Course outcome

Paper code Hin -131,132

Sem 1/2 (सामान्य हिंदी भाग 01,02)

- द्वितीय भाषा का अध्ययन
- प्रयोजन मुलक भाषा का अध्ययन एंव प्रयोग क्षमता का विकास
- हिंदी संप्रेषण की क्षमता का विकास
- भाषा कौशल का विकास
- पत्रलेखन की क्षमता का विकास
- प्रयोजनमूलक हिंदी के प्रयोग की क्षमता का निर्माण
- अनुवाद को वर्तमान सांस्कृतीक, सामाजिक एवं प्रयोजनपरक प्रविधियों से जोडते हूवे उसके व्यावहारिक पक्ष को विकसित करणा

Sem 1/2 (उपन्यास साहित्य, हिंदी गद्य साहित्य ०१-०३)

Paper code: Hin 01-13, Hin 03-13

- साहित्य का अस्वादन
- अभिरूची का परिसंस्कार
- जीवन मूल्यों की स्थापना
- समाज, राजनीती, परिवेश को समझाने योग्य बनना
- कल्पना विस्तार में वृध्दी

- चिंतन क्षमता का विकास करना
- उपन्यास सृजन में रूची निर्माण करणा

Sem 1/2 (नाटक साहित्य, एकांकी साहित्य ०२,०४)

Paper code: Hin -02-13, 04-13

- साहित्या का अस्वादन
- अभिरूची का परिसंस्कार
- मुल्यो की स्थापना
- हिंदी नाटक एवं एकांकी विधा से परिचय
- नैतिक मुल्यों के संस्कार
- हिंदी नाटकोंके नये भेदो का अध्ययन
- नाट्यस्वादन एवं नाट्यालोचन क्षमता का विकास
- नाट्य लेखन की क्षमता का विकास

Sem 3/4 (सामान्य हिंदी भाग ३,४)

Paper code: Hin -133, Hin 134

- प्रयोजन मुलक भाषा का अध्ययन एंव प्रयोग क्षमता का विकास
- हिंदी संप्रषण की क्षमता का विकास
- भाषा कौशल का विकास
- अत्याधुनिक इलेक्ट्रॉनिक मध्यमो का परिचय
- भाषा प्राद्योगिकी विज्ञापन कला व ज्ञान
- प्रयोजनमूलक हिंदी के प्रयोग की क्षमता का निर्माण
- माध्यमोपयोगी हिंदी के प्रयापेग की क्षमता का निर्माण
- माध्यमोपयोगी हिंदी का अध्ययन
- जनसंचार माध्यमों का अध्ययन
- अनुवाद प्रक्रिया का अध्ययन
- Sem 3/4 (सामान्य हिंदी भाग३,४)
- Paper code : Hin -133, Hin 134

Sem 3/4 (कथेत्तर गद्र साहित्य, आधुनिक हिंदी कविता ०५,०७)

Paper code: Hin -05-13 Hin -07-13

- साहित्य अस्वादन भिरूची का परिसंस्कार
- जीवन मूल्यों की स्थापना
- हिंदी कथेत्तर गह संवेदना की परंपरा से परिचय
- हिंदी यात्रा साहित्य से परिचय
- आधुनिक हिंदी की विविध काव्य धाराओं से परिचय
- काव्य सृजन की क्षमता का विकास
- काव्यास्वादन क्षमता का विकास

Sem 3/4 (प्रयोजनमूलक हिंदी ०६,०८)

Paper code: Hindi 0-13-Hin-03-13

- प्रयोजनमूलक भाषा का अध्ययन एंव प्रयोग क्षमता का विकास
- हिंदी संप्रेषण की क्षमता का विकास

- भाषा कौशल का विकास
- प्रयोजनमूलक हिंदी के प्रयोग की क्षमता का निर्माण
- देवनागरी लिपि से परिचय
- प्रयोजनमूलक हिंदी के अधूनातन आयमो से परिचय
- राजभाषा हिंदी के अधुनातन आयामो से परिचय
- अनुवादक की क्षमता का विकास करना

Sem 5/6 (हिंदी साहित्य का इतिहास ०९,१३)

Paper code: Hin -09-13 Hin -13-13

- जिवन मूल्यो के प्रति आस्था
- हिंदी साहित्य की परंपरा से परिवय
- साहित्य आस्वादन अभिरूची का परिसंस्कार
- हिंदी साहित्य की लेखन परंपरा से परिचय
- नैतिक मूल्यों के संस्कार
- हिंदी साहित्य की लेखन क्षमता का विकास
- हिंदी साहित्य के विविध कालो से परिवय

Sem 5/6 (प्रादेशिक भाषा साहित्य १०,१४)

Paper code: Hin -10-13 Hin -14-13

- जिवन मूल्यों के प्रती आस्था
- साहित्य अस्वादन अभिरूची का परिसंस्कार
- प्रादेशिक भाषा साहित्य से परिचय
- प्रादेशिक भाषा साहित्य के प्रति रूची निर्माण करणा
- मराठी कहानी साहित्य से परिचय
- अनुवादक की क्षमता का विकास

Sem 5/6 (साहित्य शास्त्र १०,१४)

Paper code: Hin -11-13 Hin -15-13

- साहित्य चिंतन का अध्ययन
- साहित्यलोचन क्षमता का विकास
- साहित्य सृजन के संस्कार
- शब्द शक्ति से परिचय
- आलोचना के भेदो से परिचय
- साहित्य के भेदो से परिचय
- सृजनशील बौध्दिक क्षमता का विकास

Sem 5/6 (प्रकल्प लेखन १२,१६)

Paper code: Hin -12-13 Hin -16-13

- जिवन मूल्यों के प्रती आस्था
- साहित्य अस्वादन अभिरूची का परिसंस्कार
- नैतिक मूल्यों के संस्कार

- प्रकल्प लेखन कौशल ला विकास
- अनुसंधान क्षमता का विकास चिंतन क्षमता का विकास
- लेखन कौशल के परिसंस्कार

B.A. (Marathi)

Program Outcome प्रोग्राम आऊटकम

- वास्तवाची जाणीव करूण देत जगण्याचे भान निर्माण करूण देणे.
- रोजगार व व्यवसायाची क्षमता विकसित करणे.
- सामाजिक समस्यांची जाणीव व समज निर्माण करणे.
- स्वातंत्र्य, समता बधूता एकतेची जाण निर्माण करुण देत आदर्श नागरिक घडविणे.
- साहित्यिक, सामाजिक, सांस्कृतीक वारसा निर्माण करण्यास प्रोत्सहन देणे.
- साहित्यातील सामाजिक मुल्यांचे आकलन करुण देत आदशांचे पालन करणे.
- भाषा, साहित्य,संशोधन समीक्षण इत्यादीविषयी संबंधी दृष्टिकोन निर्माण करुण नवनिर्मितीला चालना देणे.
- भाषा कौशल्याचा विकास करणे व चाचन संस्कृती वृध्दिंगत करणे.
- विविध स्पर्धा परीक्षांसाठी प्रोत्साहन देणे व सक्षम बनवण

Program Specific Outcome प्रोग्राम स्पेसिफिक आऊटकम

- साहित्सातील सामाजिक मूल्य, लोकशाही मुल्य, औद्योगिक अनुभव, साहित्यिक मुल्य सांस्कृतीक मुल्याचे आकलन करूण देणे
- व्यवहार, विज्ञान,कार्यालयीन,वाङ्मय परिभाषेचे आकलन करुण देणे.
- साहित्यातील विविध प्रवाह-प्रकारांचा परिचय करूण देणे.
- साहित्य सृजन क्षमता विकसित करणे.
- मराठी भाषा आणि साहित्याचा प्रसार प्रचार घडविणे.
- माहिती तंत्रज्ञान, व्यावहारिक भाषिक कौशल्य व दैनदिन जीवनातील भाषेचे महत्व समजावणे.
- साहित्य अभ्यासातून जीवन जगण्याची कता विकसित करणे, सामाजिक वास्तवाकडे डोळसपणे पाहण्याची क्षमता विकसित करणे.
- विविध माध्यमांचा परिचय- प्रभाव व तेखन कौशल्य विकसित करणे.
- लेखक-कवि यांचे व्यक्तिमत्व त्यांच्या साहित्यातील आशय अभिव्यक्तिचा परिचय करुण देणे.

Course Outcome कोर्स आऊटकम

- ♦ प्रोग्राम कोड MAR 001/MAR002 कोर्स-बी.ए
- प्रोग्राम गद्य पद्य उपयोजित मराठी सत्र १/२ पेपर क्रमांक १/२
 - भाषिक आकलन आविष्करण
 - पाराभूत वाङ्मरीन व भाषिक ज्ञान उपलब्ध करूण देणे.
 - वाचन, संस्कृती वृध्दंगत करणे.
 - वाङ्मयाचा आशय समजातून घेणे.
 - सामाजिक सांस्कृतीक मुत्यांचे आकलन करूण देणे
 - व्यावाहारिक ज्ञान तंत्रज्ञानाचा व्यवहारातील उपयोग समजावणे.

प्रोग्राम कोड - MAR 003/MAR004 कोर्स-बी.ए

प्रोग्राम -गद्य पद्य व उपयोजित मराठी सत्र ३/४ पेपर

कोर्स आऊटकम (Course Outcome)

• भाषिक आकलन आविष्करण समृध्द करणे.

- व्यावहारिक भाषिक कौशल्याचे ज्ञान करूण देणे.
- गद्य पद्य वाङ्मयाचा आशय समजावणे.
- दैनदिन भाषा वापर, साहित्यातील उपरोग व कार्यालयीन उपरोजनाचे आकलन करूण देणे.

प्रोग्राम कोड MAR 001/MAR002 कोर्स -बी.एस्सी

प्रोग्राम -गद्य पद्य व उपयोजित मराठी सत्र १/२ पेपर क्रमांक १/२

कोर्स आऊटकम (Course Outcome)

- भाषिक आकलन आविष्करण समृध्द करणे.
- पायाभ्रूत वाङ्मरीन व भाषिक ज्ञान उपलब्ध करूण देणे.
- वाचन संस्कृती वृध्दिंगत करणे.
- वाङ्मयाचा आशय समजावून देणे.
- सामाजिक सांस्कृतिक मुल्यांचे आकलन करून देणे
- व्यावहारिक ज्ञान तंत्रज्ञानाचा व्यवहारातील उपयोग समजावणे.

प्रोग्राम कोड MAR 003/MAR004 कोर्स -बी.एस्सी

प्रोग्राम -गद्य पद्य व उपयोजित मराठी

सत्र ३/४ पेपर क्रमांक ३/४

कोर्स आऊटकम (Course Outcome)

- भाषिक आकलन आविष्करण समृध्द करणे.
- व्यावहारिक भाषिक कौशल्याचे ज्ञान करूण देणे.
- गद्य पद्य वाङ्मयाचा आशय समजावणे.
- दैनदिन भाषा वापर, साहित्यातील उपयोग व कार्यालयीन उपयोजनाचे आकलन करूण देणे.

कोर्स आऊटकम (Course Outcome)

- भाषिक आकलन आविष्करण समृध्द करणे.
- पायाभ्रूत वाङ्मरीन व भाषिक ज्ञान उपलब्ध करूण देणे.
- वाचन संस्कृती वृध्दिंगत करणे.
- वाङ्मयाचा आशय समजावून देणे.
- सामाजिक सांस्कृतिक मुल्यांचे आकलन करून देणे.
- व्यावहारिक ज्ञान तंत्रज्ञानाचा व्यवहारातील उपयोग समजावणे.

प्रोग्राम कोड MAR C01/MARC02 कोर्स -बी. कॉम

कोर्स आऊटकम (Course Outcome)

- वाणिज्य व्यवसायात मराठी भाषेचे आकलन करूण देणे.
- कार्यातयीन, व्यवसायिक कामकाजात होणारा वापर गरज व स्वरूप विषयांची माहिती करूण देणे.
- व्यवसायाच्या माध्यमातून मराठी भाषेला स्थान मिळवून देणे.
- वाचनप संस्कृतीच्या माध्यमातून व्यवसायाला पूरक व मूलभूत सहास्य करणे.

प्रोग्राम कोड MAR 001/MAR 102 कोर्स -बी. ए प्रोग्राम - काव्यात्म साहित्य/ नाट्यात्म साहित्य

सत्र १ पेपर क्रमांक १/२

कोर्स आऊटकम (Course Outcome)

- काव्य वाङ्मयाचे आकलन आस्वाद व रसग्रहण क्षमता विकसित करणे.
- कावतील सामाजिक सांस्कृतीक मूल्य समजावणे.
- नाट्य वाङ्मयाचा परिचय करूण देणे.
- नाट्य वाङ्मयाचे आकलन आविष्करण समृध्द करणे.

प्रोग्राम कोड MAR 103/MAR 104 कोर्स -बी. ए

प्रोग्राम - काव्यात्म साहित्य/ मुद्रित माध्यमांसाठी लेखन कौशल्य.

सत्र २ पेपर क्रमांक ३/४

कोर्स आऊटकम (Course Outcome)

- जून्या नव्या कलाकृती परिचय करूण देणे.
- कथांश सिध्द करूण देणे.
- माध्यमांच्या दृष्टिने अध्यायनाचा कक्षा रुंदावणे
- माध्यमांसाठी लेखन तंत्र विकसित करणे.

प्रोग्राम कोड MAR 105/MAR 106 कोर्स -बी. ए

प्रोग्राम - आधुनिक मराठी वाङ्मयाचा इतिहास (1800-1920)

दृक्रशाव्य माध्यमांसाठी लेखन कौशल्य

सत्र ३पेपर क्रमांक ५/६

कोर्स आऊटकम (Course Outcome)

- वाङ्मयीन इतिहासाचा सर्वागीण अभ्यास करणे.
- सामाजिक, सांस्कृतीक पार्श्वभूमी, विचारप्रणाली व सामाजिक चळवळीचा वाङ्मयावरील प्रभाव अभ्यासणे.
- वाङ्मय निर्मितीची पार्श्वभूमी, प्रेरणा,प्रवृत्ती, प्रवाह इत्यादीचा परिचय करूण देणे.
- माध्यमांसाठी लेखन तंत्र विकसित करणे.
- द्रकश्राव्य माध्यमांचे महत्व- विशेष पटतून देणे व लेखन कौशल्य विकसित करणे

प्रोग्राम कोड MAR 107/MAR 108 कोर्स -बी. ए

प्रोग्राम - आधुनिक मराठी वाङ्मयाचा इतिहास (1800-1920) साहित्य प्रकारांतर आणि साहित्याचे माध्यमांतर

सत्र ४ पेपर क्रमांक ७/८

कोर्स आऊटकम (Course Outcome)

- वाङ्मरातील विविध प्रकारांचा तसेच ग्रंथकारांचा परिचय करूण देणे.
- कालखंडातील सामाजिक, सांस्कृतीक पार्श्वभूमी विचारप्रणालीचा परिचय करूण घेणे.
- साहित्य प्रकारांतराची संकल्पना स्पष्ट करणे.
- माध्यम लेखनात साहित्याचे महत्व विशव करणे.
- माध्यमांचा साहित्याशी असणारा अनुबंध उलगडून दाखवणे.

प्रोग्राम कोड MAR 109 MAR 110 कोर्स -बी. ए

प्रोग्राम - भारतीय साहित्य विचार / भाषाविज्ञान

सत्र ५ पेपर क्रमांक ९/१०

कोर्स आऊटकम (Course Outcome)

- भारतीय साहित्य विचारांचा परिचय करूण देणे.
- साहित्य समीक्षणात्मक दृष्टिकोण विकसित करणे.
- आधुनिक भाषविज्ञानाचा परिचय करूण देणे.
- भाषा निर्मितीसिध्दांत -वापर विकासाचा परिचय व अभ्यास करणे.

प्रोग्राम कोड MAR 113 MAR 114 कोर्स -बी. ए

प्रोग्राम - पार्श्वात्य साहित्यविचार/व्याकरण व निबंधलेखन

सत्र ६ पेपर क्रमांक १३/१४

कोर्स आऊटकम (Course Outcome)

- पार्श्वात्य साहित्य विचारवंतांचा परिचय देणे.
- साहित्याचे प्रयोजन, निर्मिती प्रक्रिया, साहित्यातील विविध वादांचा पश्चिय करूण देणे व समीक्षणात्मक लेखनाचा दृष्टिकोण विकसित करणे.
- शास्त्रीय मराठी व्याकरणाचा परिचय व अभ्यास करणे.
- शब्दसंग्रहाचा परिचय, व्याकरणातील मुलभूत संकल्पनांचा अभ्यास करणे.
- वाङ्मरीन वैचारिक लेखनाचे कौशल्य विकसित करणे.

प्रोग्राम कोड MAR 115 MAR 116 कोर्स -बी. ए

प्रोग्राम - मध्ययुगीन वाङ्मयाचा इतिहास (१६०१ ते १८१८) / प्रकल्प कार्यभाग २

सत्र ६ पेपर क्रमांक १५/१६

कोर्स आऊटकम (Course Outcome)

- शिवकालीन पेशवेकालीन सामाजिक, सांस्कृतीक धार्मिक स्थितीचा आढावा घेणे.
- ग्रंथनिर्मितीच्या प्रेरणा व परिणामांचा अभ्यास करणे.
- तत्कालीन ग्रंथ-ग्रंथकार-ग्रंथविशेषांचे आकलन करूण घेणे.
- भाषा साहित्य साहित्येतिहास- साहित्यशास्त्र भाषाविज्ञान इत्यादी विषयांचे आकलन व लेखन कौशल्ये वाढविणे.

B.A. (PUBLIC ADMINISTRATION)

Program Outcome

- To promote and maintain academic excellence.
- To transform the dreams and aspirations of the youth to reality.
- To strive and seek to cater to the Global needs.
- To promote ethical and value- based learning.
- To foster the spirit of national development.
- To inculcate cross cultural sensitization.
- To develop global competencies amongst students.
- To nurture creativity and encourage entrepreneurship.

Program Specific Outcomes

- To give Theoretical Knowledge of Public administration to understand conceptual knowledge of Administrative theories.
- To make pool in Theory and Practice of Public Administration for Foster Analytical and critical thinking abilities among the students about administrative Setup.
- To provide value based and ethical leadership to the profession and social life for made ability to develop value based leadership ability among Student's.
- To develop global competencies amongst students. to understand, analyze and communicate global, economic, legal, political and ethical aspects of administration
- To provide basic knowledge for Competitive Examination to the students for create ability to face competitive Examination.

Course Outcomes

Paper No. PUB-1-13: Principles and Concepts of Public Administration

- Explain basic concept of Public Administration, Meaning, Nature and Scope of Public Administration.
- Describe the types of Administration.
- Explain basic concept of Organization, its Meaning, Bases, Types, of Organization.
- Describe the Principles of organization.
- Explain important concepts of Public Administration.

Paper No. PUB-2-13: Public Administration In India

- Focus on evolution of public administration set \Box up in India.
- Explain Constitutional Framework of India.
- Explain the public administration set \Box up in India.
- Draw the structure of public administration in India i.e. Union Government, Union Legislature and Union Judiciary.
- Describe Statutory and non statutory bodies.

Paper No. PUB -3-13 Maharashtra Administration

- Explain formation of Maharashtra State.
- Describe silent features of Maharashtra Administration.
- Explain the Maharashtra administration set \Box up.
- Draw the structure of Maharashtra administration i.e. State Executive , State Legislature and State Judiciary
- Describe Statutory and non statutory bodies.

Paper No. PUB-4-13 District Administration

- Focus on evolution and Importance of District Administration in India.
- Explain Role, Power and Functions of District Collector.
- Describe Law and Order set \Box up.
- Describe key posts in District Administration.
- Describe Statutory and non statutory bodies.

Paper No. PUB -5-13 Personnel Administration

- Explain Importance and aspect of Personnel Administration.
- Explain Public Services in India i.e. All India Services, Central and State Services.
- Describe Training and Training Instructions.
- Describe problems of Personnel Administration and grievance redressal setup in India.

Paper No. PUB -6-13 Panchyatraj and Rural Development

- Focus on evolution of Panchyatraj in India.
- Explain Constitutional Framework for Panchyatraj in India.
- Explain the salient features of 73 rd Constitutional Amendment.
- Explain the Panchyatraj System in Maharashtra.
- Analyze role of Panchyatraj and rural development agency in Rural Development.

Paper No. PUB -7-13 Financial Administration

- Explain importance of Financial Administration.
- Explain concept and principles of good budgeting.
- Describe monitoring system of budgetary process.
- Describe the Principles of organization.
- Explain important concepts of Public Administration.

Paper No. PUB -8-13 Urban Local Self Government and Urban Development

- Explain concept of Urban Development.
- Explain Constitutional Framework for Urban Local Self Government in India.
- Explain the salient features of 74 rd Constitutional Amendment.
- Explain the Urban Local Self Government institutions.
- Analyze role of Urban Development Agencies in urban development.

Paper No. PUB -9-13 Human Resource Development

- Explain the importance of human resources and their effective management in organizations
- Explain role of various institutions in Human Resource Development. .

- Analyze Means of Human Resource Development.
- Demonstrate a basic understanding of human resource planning and needs.

Paper No. PUB -10-13 Educational Administration in India

- Explain concept and objective of Education.
- Describe historical background of Education.
- Explain role of various institutions in higher education.
- Analyze challenges before higher education in India and suggest the remedies and solution in resolving the issues.
- Explain impact of Globalization on Higher Education.

Paper No. PUB -11-13 Administrative Thinkers.

- Explain the administrative philosophies by different administrative thinkers.
- Analyze the principle and theories for the different organizational set \Box up.
- Apply the principles and philosophies in the administration of organization.
- Compare the philosophies of administrative thinkers in India and overseas.
- Describe the growth of public administration based on the Indian philosophical thoughts.

Paper No. PUB -12-13 Public Policy and Development.

- Explain the significance and types of public policy.
- Describe Public Policy Formation and Implementation Process.
- Focus on some Public Policies in India.
- Analyze challenges before Development and suggest the remedies and solution in resolving the issues.

Paper No. PUB-13-13 Health Administration in India.

- Explain concept of health care administration.
- Explain Status of Indian Health Care System.
- Describe role of Health and Family Welfare Ministry.
- Explain aims and importance of National Rural Health Mission.
- Analyze challenges before Indian Health Care System and suggest the remedies and solution in resolving the issues.

Paper No. PUB-14-13 Recent Trends in Public Administration and Importance Laws

- Explain recent trends in public administration.
- Describe impact of recent trends on public administration.
- Explain importance laws of administration.

Paper No. PUB-15-13 Project Work.

- Enlist and introduced to students issues in India administration
- Analyze the causes of issues in India administration.
- Developed research attitude among the students.
- Describe the major parameters affecting the administration and society.
- Describe the new devices in Administration as to resolve the issues.
- Suggest the remedies and solution in resolving the issues through project

B.A. (SOCIOLOGY)

Program Outcome

- Sociology makes human being as social being while. Economics teachers how to satisfy our, needs with minimum resources
- Sociology teachers how to do social transaction, interaction thoughts feelings, art, morel values and etiquettes while Economic teacher how to do economics transaction related with Goods and services.
- Social consciousness and practical knowledge sociology and economics combine develops

Program Specific Outcomes

- To support road-side psychotic or mentally challenged people.
- To develop humanitarian point of view of society towards prisoners through student's participation or in propaganda about changing attitude of the society.
- To deliver school things to children of widowers of suicide farmers and motivate them to acquire higher education.
- To bring nomadic tribe students in mainstream of cultural activity such students have rich cultural heritage which would expand through proper training.
- To attempt to create social, cultural and educational environment among students in remand home
- To provide different facilities to old age people in the city through the students. The activity would develop social commitment among students.
- To develop ethical values among the student according to convenience of the remand home administration and students.

Course Outcome

Paper No.I Introduction to sociology

- Understand nature of sociology and introduction of sociology.
- To create an awareness of the impact of sociology on the society.
- To understand the basic concept of society, social system social groups & social institutions.
- The students will learn perspective in sociology by various concepts like functionalist and conflict.
- The students will learn new to analysis of social problem, evaluation of social change by the knowledge of society.

Paper No. II Individual & Society

- Understand nature of culture in society.
- To able to understand social stratification
- To able to understand caste system.
- To able to understand class system.
- To learn various social change & barriers in social change.
- To understand the concepts of conformity and deviance.

Paper No. III Introduction to subfields of sociology

- To understand difference between urban sociology and rural sociology.
- To able to understand basic concepts of sociology Psychology.
- To able to understand basic concepts of politics psychology.
- To able to understand concepts of Anthropology
- To learn applications of sociology.

Paper No.IV India Social Compositions

- To understand features of Indian society.
- To understand forms of diversity in India.
- No able to understand India population and his characteristics.
- To learn population planning & population control program.
- To understand democracy and secularism concept.
- To able to understand rural and agrarian strong of India society.

Paper No. V Problems of Rural India

- Student got ability to highlights institutional issues.
- Student enables to understand domestic violence and dowry.
- Student enables to know problem of illiteracy.
- Student enables to know education heart.
- Student knows the major issues in development.
- Students understand and analyze the problem of rural economy.

Paper No. VI Contemporary Urban Issues

- Student got knowledge of concepts of urbanization.
- Student enables to understand the concepts of migration.
- Student understands and analyzes the problem of urbanization.
- Student enables to understand urban planning.
- Student understands implications of globalization for cities and planning.

Paper No. VII Population in India

- In understand causes and consequences of population.
- Student understands basic concepts of fertility, mortality.
- Students view increased of population growth and environment effects.
- Introduce to student demographic transition
- Students got knowledge of new population policy of India.
- Students were awareness of how to control population growth.

Paper No. VIII Sociology of Development

- Students enable to demonstrate of conceptual perspective on development.
- Students enable to understanding of sustainable development.
- Analysis and understanding the problem of weaker section.
- To study and understand development issues.
- To understand development approach, capitalist, socialist and mixer approach
- Create the awareness among the student of government schemes.

Paper No. IX Sociological Tradition

- Understand the emergence of sociological thought
- Understand about the period of enlightenment.
- To study and understand the sociological thinkers like August Compte, Herbert Spencer and Emile Durkheim.
- To understanding of sociological thought and to know about pioneer sociologists stated theories.
- To study the Karl Max and his theory of class struggle.
- To study the Max Weber and also analysis theory of spirit of capitalism and protestant ethics.

Paper No. X Introduction to Research Methodology

- Develop understanding on various kinds of research objection of doing research, research designs & sampling.
- Have basic knowledge on qualitative research techniques.
- Have adequate knowledge on measurement & scaling techniques as well as the quantitative date analysis.
- Have basis awareness of date analysis and hypothesis testing procedures.

Paper No. XI Social Problems in India

- Conceptual analysis of social problems.
- Findings of the pattern of social problems causes and extents.
- To understand and diagnose the patterns of the extent of deviances.
- To study the problems of Inequality.
- To analysis the problems of commercial rout ion of agriculture.
- Students can demonstrate an understanding of the diverse forms & sources of social inequality and difference that exist in society.

Paper No. XIII Sociological Theories

- Through the development of an understanding on sociological theories and concepts student can demonstrate the role of theory in sociology.
- To understand social theory and describe its role in building sociological know.
- To analysis compare and contrast basic theoretical orientations.
- Describe how sociology differs from and is similar to other social science and give examples of these different
- Demonstrate the historical cultural context in which theories were developed.
- Apply basic theories of theoretical approach in at least one area of social reality. Apply the sociological imagination, sociological principles and concepts to her/his own life.

Paper No. XIV Social Research Methods

- To understand primary techniques of the use of social research.
- To study and understand basic methodologies approaches and describe the general to role of methods in building sociological knowledge.
- Demonstrate an understanding of the computer application and statistics.

- To study society and social structure and design a research study in an area of choice and explain why.
- Develop understanding on various finds of research objectives of doing research, research process research designs and sampling.
- Have adequate knowledge of welfare schemes.

Paper No. XV Social Disorganization in contemporary India

- To study problem of disorganization and causes of social disorganization.
- To analyze the violence and social disorder in the society and have awareness of naxalism and Terrorism in India.
- Understand the concept of Regionalism.
- Conceptual analysis of regional imbalance
- Solve the problem of disorganization and also think independently and draw a logical conclusion as solution
- Create an awareness of the impact of regionalism on the society.

B.A. (POLITICAL SCIENCE)

Program Outcome

- Understand the world their country, their society, as well as themselves and have awareness of ethical problems, social rights. Value and responsibility to the self not to others.
- Understand different disciplines from natural and social sciences to mathematics and art and develop interdisciplinary approaches in thinking and practice.
- Think critically follow innovations and developments in science and technology demonstrate personal and organizational entrepreneurship and engage in life long learning in various subjects.
- Communicate effectively in by rewritten, graphical and technological means.
- Take individual and team responsibility, function effectively and respectively as on individual and a member of a leader of a team and have the skills to work effectively in multi disciplinary teams.

Program specific outcomes

- Develop knowledge of theories, concepts, and research methods in humanities and social sciences.
- Assess how global, natural and regional developments affect society.
- Know how to access and evaluate data from various sources of information.

Course Outcomes

Paper No. Pol 101 Basic concepts of political science

- Students will know about the meaning of state, Government, sovereigns, Citizenship and lights.
- 2. Students will learn theories of origin of state.
- 3. Students will understand types of government and organs of government.
- 4. Students should aware about types of rights and duties of citizen

Paper No. Pol-102 Government and politics of Maharashtra

- Will able to, learn on completion of course students.
- To know historical and political Background of Maharashtra State.
- To know state reorganization commission.
- To understand and study the movements in Maharashtra.

Paper No. Pol. 103 Basic consents of political science

- On completion of course students will able to learn.
- To know meaning definition and types of Liberty, Equality, and justice.
- To know the Rights of Human.
- Students will understand the democracy system.
- To know welfare state.

Paper No. Pol. 104 Government and Politics of Maharashtra

• To know historical background of Panchyati Raj.

- To study composition and functions of panchyati system.
- To I get information about political parties in Maharashtra.

Paper No. Pol. 105 Indian Government and politics

- To introduce Indian constitution.
- To know fundamental rights.
- To study Indian government.
- To understand budgetary process:

Paper No. Pol. 106 International Relations

- Information about international relation.
- To study approaches of international relations.
- To know foreign policy.
- To understand the concepts of National interest and national power.
- To introduce the international relations.

Paper No. Pol. 107 Indian Government and politics

- To know about Supreme Court.
- To introduce center state Relations.
- To study ideology and program of political parties in India to know importance of Election Commission.

Paper No. Pol. 108 International Relations

- To know about collective security to study deterrence
- Introduce major issues in internationalism:
- To know International and Regional organizations:

Paper No. Pol. 109 Indian Political Thinkers

- To study thoughts of Raja Ram Mohan Roy
- To know the thoughts of Dayanand Sarasvati.
- To know the thoughts of Gopal Krishna Gokhale
- To understand the views of Lokmanya Tilak
- To study views of Mahatma Gandhi

Paper No. Pol. 110: Western Political Thinkers

- On the completion of course students will able to
- To study views of plate
- To knows thoughts of Aristotle
- To understand thoughts of Machjaveli
- To study views of Thomas Hobbes.
- To know thoughts of John Locke

Paper No. Pol. 111 Political Ideologies

On the completion of course students will able to.

- Introduce to Nationalism
- To understand Liberalism

- To know democracy.
- To study imperimism
- To study feminism

Paper No. Pol. 112 Indian Political Thinkers

- To study views of Maulana Azad.
- To know thoughts of Jawaharlal Nehru.
- To criticize views of M.N. Roy.
- To understand the importance of Dr. Babasaheb Ambedkars thoughts .
- To study thoughts of Jai Prakash Narayan.

Paper No. Pol. 113 Western Political Thinkers

- To study views of Jean Jacqes Roussean
- To analyze views of John Stuart Mill
- To understand thoughts of Jeremy Bentham
- To know importance of karl mart thoughts.
- To study views of Harold Laski.

Paper No. Pol. 114 Political Ideologies

- To introduce socialism.
- To study communism.
- To understand Fascism.
- To know anarchism
- To study environmentalism.

Paper No. Pol. 115 Project

- On the completion of Course students will able etc.
- To learn about research.
- To improve scientific approach in the students.
- Students will get basic know ledge about research.

B.A. (ECONOMICS)

Program Outcome

- Three year under graduate course in Economics (Major) covers Micro Economics, Indian Economics, Price Theory, Money Banking And Finance, Macro Economics, Development And Planning, Public Finance, Statistical Method, International Economics, Environmental Economics, History Of Economics Thought, Agricultural Economics, Research Methodology, Industrial Economics, Indian Economics Thinker,
- It enables the student to understand the theories of exchange among rational economics agent in variant market structure. In help students to get an idea of the behaviour of Indian and world economy.

Programme Specific outcomes

- The course will provide knowledge on analyzing macro economics policies including fiscal and monetary policies in India student will be able to determine economics variables including inflation, unemployment, poverty, gross domestic product, etc to understand the behavior of financial and money market and to develop knowledge about prospects of growth.
- Recognize economics as business and markets, government and global economics as well as social and cultural institution.

Course outcome

- To describe the various ideas on Economics and related concept.
- To Evaluate and discuss the law of demand and supply.
- To impart knowledge on Indifference curve.
- Identify the various concept market Equilibrium.
- To understand Law of supply and supply curve
- Identify the various concept of price line.
- To knowledge of the consumer's Behaviour and Demand
- To knowledge of Revealed preference theory.
- Identify and knowledge of kinds of equilibrium, static and Dynamic Equilibrium and general Equilibrium.

Paper No. II 102 Indian Economy

- To able to understanding characteristics, features structural changes in Indian Economy.
- To able to understand the size of structure of population and their bad or good impact on our Indian Economy.
- To able to understand the increasing problems of unemployment, poverty and their effect on Indian Economy.
- To able to Evaluating the changing agriculture role, Industrial and service sector trade in Foreign sector.

- To able to understand the rising social inequality problems and regional imbalances in India.
- To able to understand the role of planning commission and National Development Council (NDC) in Indian Economy.
- To able to understand the nature, scope and impact of New Economic Reforms in 1991 on the Indian Economy.

Paper No. III 103 Price Theory

- Indentifying the nature of theory of production.
- Comprehending the Isoquaint curve.
- To understand cost and Revenue.
- Realizing various production theories.
- Clarifying the meaning of marginal, average total revenue, and marginal average and total cost and its implication.
- Awareness of different markets structure.
- Understanding pricing in different markets.
- Judging the factor pricing.
- To understanding pricing methods
- To knowledge of Bain's model.

Paper No. IV104 Money, Banking and Finance

- To able to understand the money and banking is essential understand the monetory and Banking system in India.
- To able to understand the kinds of paper currently and methods of Note issue.
- To able to understand the meaning, definition, functions and types of money.
- To able to understand the functions and credit creation process of commercial banks and co-operative Banks.
- To able to understand the functions of NABARD, RRB's and foreign Banks.
- To able to understand the New concepts in Banking for e.g. core Banking, ATM, Credit card, E-Banking etc.
- To able to understand the meaning, functions, organization and management of RBI.
- To able to understand the concept of Money measures, meaning and objectives of Monetary policy and methods of credit control of RBI.

Paper No. V 105 Macro Economics

- After getting knowledge about this subject students will be able to understand meaning, nature and scope of macro economics.
- Students will be able to understand various concepts of national income, measurement of national income and what should be include and what should be not include in national income.
- Student will be able to understand how the high growth rate achieve and maintaining has for long in developing country.
- To be understand how to accelerate the growth rate.
- To be understand how the employment generated in the economy with the help of leeynesian employment theories.

- Student will be understand the difference phases of trade cycles and the impact of cyclical fluctuation on the growth rate of economy.
- To be understand what is inflation and uses of monetary and fiscal policy for.

Paper No. VI106 Development Economics

- Basic knowledge of development planning economy and its growth theory.
- Knowledge of development growth theory.
- to understand the basic characteristic of economics development and growth of India economy.
- To understand the agriculture as the foundation of economics growth and development.
- To know about Indian planning.
- Understanding the concept and aspects of economics development.
- Measuring the concept and issues of economic planning.
- Discussing the need, types and necessary conditions of economics planning.
- Can become the master in the area of urban planning development and management regional planning, housing transport, planning infrastructure planning or in other related disciplines.

Paper No. VII 107 Public Finance

- After studies this subject student will be understand what public finance is all about and its importance for economy.
- Student to be understand the classification of taxes between direct tax and indirect tax, also its help students to understand importance of tax in economy.
- To be understand difference between private finance and public finance.
- To be understand the principles and role of public expenditure in developing economy.
- To be understand concept and importance of public debt as well as sources of public debt.
- To be understand components of union budget and types of budget.

Paper No. VIII 108 Statistical Methods

- On completion of the course student would health to demonstrate the role of and statistical techniques in the field of business/industry, illusory different types of equations solve.
- Collect appropriate data concept mean, median, mode, concept of statistical averages use and apply central tendency, dispersion, skewness and kurtosis.
- Explain concept of correlation, analyze and interpret covariance and correlation coefficient, illustrate ordinary least squares and uses estimate regression coefficient.
- Describe the components of time series, apply time series analysis in business scenarious, illustrate the different types of Index numbers and calculate Index number.
- Measure mortality rates, population growth reproduction rate of natural increase net reproduction rate knowledge in understanding how the population profile of a country is changing estimate population trend.

Paper No. IX 109 International Economics

• To able to elaborating the importance of study of International Economics

- To able to understanding the similarities and differences in Inter-regional and International trade.
- To able to knowing the changes in the trade and import-export policies of India.
- To able to evaluating various types of exchange rates in open economy and its merits or demerits.
- To able to understanding the types and effects of tariffs and Non-tariffs bari (Quotas) in International Trade.
- To able to judging the function, merits and demerits of IMF, IBRD (World Bank), WTO, SAARC, ADB and other International organizations.
- To able to understanding the difference between Balance of Payment and Balance of Trade and Realizing the volume composition and direction of BOT and BOP.

Paper No. X 110 Agricultural Economics

- After studies this subject student will be understand the importance of agriculture sector for any country.
- Student will be able to draw distinctive features of rural and urban economy or agricultural and non-agricultural which can influence the whole economy.
- Student will be able to understand applicability of agricultural economics, which encompasses all aspects of crop production including horticulture, livestock rearing, fisheries etc.
- Student will be understand agriculture as a business aims at maximum net return through the management of land labour, water and capital employing the knowledge of various sciences for production of food, feed, etc

Paper No. XI 111 History of Economic Thought

- Acquaintance with the economic thought of classical, Nationalist and socialist thinkers.
- Judging the development of economies thought
- Comprehend the development of the theory of Economics in historical perspective.
- Comprehend emerging paradigam and aberration with its reasons.
- Debute similarities and differences among different economy scholars subject.
- History of Economic thought is every more Important now.
- Keynes criticized 'classical economics' which was a comprehensive concept for him it included both new classical and classical economics.

Paper No. XIII 113 Research Methodology

- To able to understand research methodology deals with importance of social research.
- To able to understand meaning, nature, scope and objectives of social research.
- To able to understand the theory, concepts hypothesis stages of scientific Research.
- To able to understand meaning and need of Research design and types of Research design ex. descriptive. Exploratory, diagnostic and experimental etc.
- To able to understand the methods of data collection, data presentation and data analysis.
- To able to understand arrange the content sequence of report writing.
- To able to understand the importance of hypothesis and concept of hypothesis testing methods.
- To able to understand the graphs, charts, line chart diagrams and Tabular presentation.

• To able to understand the importance of student package for social science (SPSS) in Research Methodology.

Paper No. 114 Industrial Economic

- Student will be understand need and importance of industries sector in economic development for any country.
- To be understand the linkage between industry and agriculture sector.
- To be understand the organization and varies ownership structure of industry, like public, private & MNCs etc.
- To be understand importance of location for industry with the help of theories of location.
- To be understand composition of industry sector into large scale industry, Agro processing industries etc.

Paper No. XV115 Indian Economic Thinkers

- Realizing the economic concept and theories of Neo-classical and Indian thinkers.
- Evaluating the development of Indian economic thoughts.
- To gain knowledge on the perspectives of thought Koutilya
- To knowledge of the Economic ideas of Netaji, Rande and Datt.
- To understand the Dr. B.R. Ambedkar Economic ideas.
- To knowledge of Economic thought of Amartya Sen.
- Identifying the Economic welfare and social choice.

B.A. (HISTORY)

Program Outcome

- Students enables to Evaluate, analyze and synthesize historical materials (Primary and secondary sources)
- Student enables Recognize and explains the historical development of cultures.
- Student understands to evaluate and recognize different Empire in Indian history.
- Student Identify the role of theory and methodology in the production of historical knowledge.
- Student Identify and critique basic historical concepts.

Programme specific outcomes

- A history graduate can find employment with Archaeological survey of India or with private firms related to archeology.
- For history graduates, the option of public service is always open.
- Work as a teacher in schools and high schools.
- Serve as conservator and tourist guide in historical monuments.
- NGO and social welfare organizations also employ B.A. History graduates.
- Writer/subject matter Expert.

Course outcomes

Paper No. I Chhatrapati Shivaji and his times [1630-1707]

- Shivaji Maharaj history is useful to students for MPSC Exam.
- Students got knowledge of concept of Shivaji and his times.
- Students view increased of Nationalism and secularism.
- Student got knowledge of administration of Shivaji Maharaj.
- Introduced to students social, economic and religious condition.

Paper No. II History of Modern Maharashtra [1818-1905]

- Students got knowledge of concept history of modern Maharashtra.
- Modern Maharashtra History is very useful to students for MPSC examination.
- Modern Maharashtra History is useful to student for NET-SET exam.
- Student got knowledge of Maharashtra philosophers and their philosophy.
- Students got knowledge of modern Maharashtra social Reform.

Paper No. III History of Maratha [1707-1818] Peshwa

- History of Maratha. History is useful to students for MPSC examination.
- Students view increased of Nationalism and secularism.
- Students got knowledge of administration of History of Maratha (Peshwa period)
- Introduced of student to social, Economical and Religious condition.

• History of Maratha [Peshwa period] History is very useful to student for all - competitive exam.

Paper No. IV 20th Century Maharashtra: 1905 to 1960]

- Student got knowledge of concept 20th century.
- 20th century Maharashtra 1905-1960 is very useful to student for MPSC exam.
- 20th Century Maharashtra is very useful to student for Net-SEt and all competitive exam.
- Students got knowledge of 20th century Maharashtra philosopher and social Reformer.

Paper No. V History of Early India" [upto B.C. 300]

- Ancient Indian History is very importance for UPSC examination.
- When students doing study if ancient history that time they know about original culture religion and society.
- History of Early India is very importance for all competitive exam [Set. Net, MPSC]
- Increasing student's wideness.
- Student capable for discuss any social issue.

Paper No. VI History of Delhi sultanat [A.D. 1200 to 1526]

- History of Delhi sultanat History is important for UPSC exam.
- 'History of Delhi sultanat' History is very important section as far as the syllabus of any competitive examination is possible, especially civil service exams.
- Students enable to understand the medieval political history.
- Increasing student's wideness.
- When students doing study of History of Delhi sultans' that times they know about original culture religion and society.

Paper No. VII History of Mughal India [1526-1707]

- Medieval culture with a view understands the student.
- Student introduced nature of medieval Indian society economy, state formations and the main religious currents of the time.
- History of Mughal India, History is very important for UPSC exam.
- Students enable to understand the medieval political, Economical, Social and Agriculture History.

Paper No. VIII History of India [B.C. 300 to A.D. 650]

- 'History of India' is very importance for UPSC exam.
- When students doing study is 'History of India' that times they know about original culture Religion and society.
- Increasing students wideness.
- Students capable for discuss any social issue.
- 'History of India' is very importance for all competitive exam [Set-Net, MPSC]

Paper No. IX Historiography

- Students know source of History.
- Practically student know to how much write history.
- Increased the knowledge of Research in History.
- Students know external and internal criticism.
- Students know Historian works.
- Students got knowledge of History writing theory.
- History writing trends in the world introduced to students.

Paper No. X History of Indian National Movement [1885-1947]

- "History of Indian National Movement" topic as a part of History is a very important section as far as the syllabus of any competitive examination is possible, especially civil services exams.
- Students understand of the stages of development in modern India, why certain events happened and analysis of the consequences of such developments that power an impact on our society, Economy and our political system.
- 'History Indian National Movement' importance for competitive examination.
- To made them awareness of the multi-dimensionality of History of Indian National Movement'.

Paper No. XI Womens struggle in Modern India

- Students got knowledge of concept of "Women struggle in modern India"
- Students view Increased of feminism.
- Student got knowledge of female Reformers.
- Students know source of history.
- To helps to understand the situation of women in modern India.

Paper No. XII Project Work

- Student gets information about forts.
- Students get information about caves.
- Students understand local history.
- Students acquire knowledge about historical monuments.
- Students get information about historical coins.
- Students get information about museums, saints, social workers, Inscriptions, peasant movement, labour movement, temples, archieves, Hyderabad freedom struggle etc.

Paper No. XIII Fields of History

- Students know source of history.
- Practically student known to how much write history.
- Students know historian works.
- Students got information about culture.
- It helps students to understand the Indian Architecture.

- It helps students to understand monumentful things by fieldwork.
- Students got great experiences by visiting.

Paper No. XIV Landmark of the History of Modern world

- Students got knowledge of concept in word history.
- Students got global event knowledge it is use for increased intellectual level.
- World trend of thinking, Marxist, communalism Dictatorrship, Empearalism, nazizurm, Faskism, Terrorism, Feminism, Globalization etc introduced to students.

Paper No. XV Glimpses of the History of Marathwada (up to 1948)

- Students got knowledge of concept glimpses of the History of Marathwada.
- Students got knowledge of Religious movement in Marathwada.
- Students got knowledge of socio-economical and culture History of under the Nizam state.
- Students got knowledge of Hyderabad freedom struggle.
- 'Glimpses of the History of Marathwada' is very useful to student for Net,Set, MPSC and all competitive exam.
- When students doing study it 'Glimpses of the history of Marathwada' that times they know about original culture Religion and society.

Paper No. XVI Project Work

- Students get information about forts.
- Students get information about caves.
- Students understand local history.
- Students acquire knowledge about Historical monuments.
- Student gets information about historical coins.
- Students get information about museums, saints, social workers, present movement, labour movement, temples, Hyderabad freedom struggle etc.

Reference:

- 1) Syllabus of BAM University <u>www.bamu.ac.in</u>
- 2) <u>www.rayat.edu-society</u>
- 3) <u>www.shivajiuniversity.com</u>
- 4) <u>www.nmu.jalgaonuniversity</u> (bahinabai chaudhari.com)

FACULTY OF COMMERCE

B.Com

Programme Outcome

- After completing three years for Bachelors in Commerce (B.Com) programme students will gain a through grounding in the fundamentals of commerce and finance.
- The commerce and finance focused curriculum offers a member of specializations and practical exposures which would equip the student to face the modern day challenges in commerce and business.
- The all inclusive outlook of the course offer a number a number of value based and job oriented courses ensures that students are trained into up-to-date. In advanced accounting courses beyond the introductory level, affective development will also progress to the valuing and organization levels.

Programme specific Outcome

- Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books.
- Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
- Students will learn relevant financial accounting career skill, applying both quantitative and qualitative knowledge to their future careers in business.
- Students will learn relevant managerial accounting career skills, applying both quantities and qualitative knowledge to their future careers in business.
- Learners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting economics, fiancé and marketing.
- Learns will be able to recognize features and roles of businessmen entrepreneur, managers, consultants, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.
- Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
- Learners will acquire the skills like effective communication, decision making problem solving in day to day business affairs.
- Learners will involve in various co-curricular activities to demonstrate relevancy of foundational and the theoretical knowledge of their academic major and to gain practical exposure.
- Learners can also acquire practical skills to work as tax consultant audit assistant and other financial supporting services.

• Learners will be able to do higher education and advance research in the field of Commerce and finance.

Course Outcome

Paper No. I Financial Accounting

- To impart the knowledge of various accounting concepts.
- To install the knowledge about accounting procedures methods and techniques.
- To acquaint them with practical approach to accounts writing by using by using software package.

Paper No. V Business and Industrial Economics

- To expose students of commerce to basic Microeconomics concepts and Inculcate an analytical approach to the subject matter.
- To stimulate the student interest by showing the relevance and use of various economic theories.
- To apply economic reasoning to problems of business.

Paper No. IV Business mathematics and statistics

- To understand the concept of shares and to calculate dividend.
- To understand the concept of population and sample.
- To make frequency distribution to make decision.
- To understand and to calculate various types of averages and variations.
- To understand the concept and application of profit and loss in business.
- To solve LPP to maximize the profit and to minimize the cost.
- To use correlation and regression analysis to estimate the relationship between two variables.
- To understand the concept and techniques of different types of index numbers

Paper No. VII Entrepreneurship Development

- To make the students aware about the Business Environment.
- To create entrepreneurial awareness among students.
- To motivate students to make their mind set for taking up entrepreneurship as carrier.
- To empower students with sufficient knowledge to start their venture with confidence.

Paper No. VI Business communication and Information Technology and Application in Business

- Be able to apply knowledge of computing and mathematics appropriate to the discipline.
- Be able to design, implement, and evaluate a computer based system, process or programme to meet desired needs.
- Be able to function effectively on teams to accomplish a common goal.
- Be able to analyze the local and global impact of computing on individuals, organizations and society.

Paper No. III Corporate Accounting

- To enable the students to develop awareness about Corporate Accounting in conformity with the provision of Companies Act and Accounting as per Indian Accounting Standards.
- To make aware the students about the conceptual aspect of corporate accounting.
- To enable the students to develop skills of computerized Accounting.
- To enable the students to develop skills about accounting standards.

Paper No. VII Banking and Insurance

- To create the awareness among the students of Indian Banking System.
- To enable students to understand the reforms and other developments in the Indian Banking.
- To provide students insight into the functions and role of Reserve Bank of India
- To enable students to understand the rural Banking system and self help groups.

Paper No. IV Cost Accounting

- To impart the knowledge of Basic cost concepts.
- To impart the knowledge of elements of cost.
- To impart the knowledge of Ascertainment of material and labour cost.
- To impart the knowledge of overheads in the O cost.
- To impart the knowledge regarding costing techniques.

Paper No. VI Goods and Service Tax

Goods and Service Tax is expected to bring together state economics and improve overdue economic growth of the nation. GST is a comprehensive indirect Tax Levy on manufacturer as well as services at the national level. It will replace all indirect taxes levied on Goods and services by states and central.

- Goods and Service Tax
- Goods and service Tax is the biggest indirect tax return of India GST is a single tax on the supply of goods and services.
- It is a destination based tax. GST will subsume Central Excise Law, Service Tax Law, VAT, Entry Tax, Octrio etc.

Paper No. V Information Technology & Application in Business

- Describe the concept of programming.
- Understand the features of programming.
- Understand the features of pointer in C
- Understand the use of Array in C
- Understand the function of union and structure.

Paper No. XXXVI Management Accounting

• Explain the three primary purposes of management accounting namely inventory valuation, decision support and cost control.

- Compare traditional and contemporary costing approaches for the above purpose.
- Learn how costs are analyzed for different product costing centexts such as job order process or joint product systems.
- Develop and apply standards and budgets for planning and controlling purposes.
- Apply incremental analysis to a range of business scenarios.

Paper No. XXXIX New Auditing Trends

- To acquaint the concept and principles of Auditing, Audit process, Assurance standards Tax Audit, and Audit of computerized systems.
- To get knowledge about preparation of Audit Report.
- To understand the basic concepts and to acquire knowledge about computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at source Tax collection Authorities under the Income Tax Act, 1961

Paper No. XXXIV Banking & Insurance

- To acquaint with financial markets and its various segments.
- To understand the operations and developments in financial markets in India.
- To enable to gain an insight into the functioning and role of financial institutions in the Indian Economy.

Paper No. XXXVII Cost Accounting

- To provide knowledge about the concepts and principles application of overheads.
- To provide also understanding various methods of costing and their application.
- To import knowledge regarding costing techniques.
- To provide training as regards concepts, procedures and legal provisions of cost Audit.

Paper No. XXXV Advance Financial Accounting

- Read and analyze consolidated financial statements including accounting and other information disclosures.
- Conduct practical research in the accounting discipline.
- Discuss and solve accounting issues that arise from inter-entity relationship.
- Explain the consolidation process and prepare consolidated financial statements based on relevant accounting standards.

FACULTY OF SCIENCE

B.Sc. BOTANY

Program Outcome

- Critically evaluation of ideas and arguments by collection relevant information about the plants, so as recognize the position of plant in the broad classification and phylogenetic level.
- Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification.
- Interpretation of collected information and use taxonomical information to evaluate and formulate a position of plant in taxonomy.
- Students will be able to apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.
- Students will be able to access the primary literature, identify relevant works for a particular topic

Program Specific Outcome

- Understand the diversity among know diversity of Viruses, Bacteria Algae and their useful and harmful activities. Understand the structure of Mycoplasma and its activities. Know the systematic, morphology and structure, of Algae. Understand the life cycle pattern of Algae. Understand the useful and harmful activities of Algae. Understand the Biodiversity of Fungi. Know the Economic Importance of Fungi
- Understand basic body plan of flowering plants, diversity of plat forms. Know morphology of vegetative organs, reproductive organs of plants. Understand fruit and seed types
- Understand the morphological diversity of Bryophyta & Pteridophyta. Understand the economic importance of the Bryophyta & Pteridophyta
- Understand the scope & importance of Anatomy. Know various tissue systems. Understand the normal and anomalous secondary growth in plants and their causes. Perform the techniques in anatomy. Know the methods of pollination and fertilization. Know fertilization, endosperm and embryogeny
- Know the conceptual development of taxonomy and systematic. Understand the Phylogeny of angiosperms -A general account of the origin of Angiosperms. Understand the general range of variations in the group of angiosperms. Trace the history of development of systems of classification emphasizing angiospermic taxa. To learn the wide activities in angiosperm and trends in classification. Learn about the characters of biologically important families of
angiosperms. Know the floral variations in angiospermic families, their phylogeny and evolution. Understand various rules, principles.

- Useful for the understanding of ecological concepts as well as the ability to apply ecological knowledge to manage and remediate environmental problems
- Understand the diversity of Gymnosperms in India. Know the evolutionary trends and affinities of living gymnosperms with respect to external and internal features. Understand the role plants in human welfare. Gain knowledge about various plants of economic use. Know importance of plants & plant products. Understand the chemical contents of the plant products. Know about the utility of plant resources.
- Understand the Biochemical nature of cell. Know the chemical nature of biomolecules. Understand the different types of interaction in Biomolecules. Structure and general features of enzymes. 5. Concept of enzyme activity and enzyme inhibition. Learn about the movement of sap and absorption of water in plant body. Understand the plant movements. Understand the process of photosynthesis in higher plants with particular emphasis on light and dark reactions, C3 and C4 pathways. Understand the respiration in higher plants with particular emphasis on aerobic and anaerobic respiration
- Know cell structure, prokaryotic and eukaryotic cell. Structure and organization of cell wall and
 organelles. Understand nucleus its structure and functions. Know cell cycle, cell division-Mitosis
 & Meiosis and its significance. Know organization of nucleic acid DNA, RNA and its functions.
 Understand chromosome organization, chemical composition, giant chromosomes, aberrations and
 its functions of chromosomes.
- Know the concept of methodology in taxonomy. Learn about conservation of biodiversity, major causes for loss of biodiversity and conservation measures. Discover botanical regions of India and vegetation types of Maharashtra. Understand Bioremediation, Global warming and climate change. Studies on phyto-taxonomy and angiosperms families.
- Understand Mendel's biography. To study the phenomenon of dominance, segregation and independent assortment. To understand the different types genetic interaction, incomplete dominance, co-dominance, non-allelic and inter-allelic genetic interactions and multiple alleles. Understand sex determination in different organism and sex linked inheritance mechanism. Know structure and functions of gene and genetic diseases.
- Understand the fundamentals of Recombinant DNA Technology. Know about the Genetic Engineering
- Know the conceptual development of taxonomy and systematic. Understand the Phylogeny of angiosperms -A general account of the origin of Angiosperms. Understand the general range of variations in the group of angiosperms. Trace the history of development of systems of classification emphasizing angiosperm taxa. To learn the wide activities in angiosperm and trends in classification. Learn about the characters of biologically important families of angiosperms. Know the floral variations in angiosperm families, their phylogeny and evolution. Understand various rules, principles and recommendations of plant nomenclature produces in plant identification.) Understand major evolutionary trends in various parts of angiosperm plants

- The B.Sc programme enabled the students to enhance their critical thinking, during the three year period of study and the curriculum stimulates the mental thoughts and assumptions of the students.
- This helps the students to take up practical work and compare the results with their assumptions, there by leading to accuracy and validity of the practical knowledge. This Analysis leads to take decisions at intellectual, organizational and personal from different perspectives of life.
- On successful completion of Bachelor of Science programme, students will develop a scientific temper, critical thinking, problem solving skills, and research attitude for the betterment of the society.
- Solve the problem and also think methodically independently and draw a logical conclusion.

Course Outcome

Paper No.I Diversity of Cryptogams

• Learn microscopic plants e.g. viruses, bacteria, algae and fungi. Importance in human life

Paper No.II Morphology of Angiosperms

• Study of types of various organs of flowering plants

Paper No.V Diversity of Cryptogams

• Learn first land plants groups e.g. Bryophyta, Pteridophyta.

Paper No.VI Histology, Anatomy and Embryology

• Internal structure of plants. Types of tissue. Types of Embryo

Paper No.IX Taxonomy of Angiosperms

• Studies on various important plant families with similar characters. Classification systems. Uses of plants in human life.

Paper No.X Plant Ecology

• To understand the nature of environmental influences on individual organisms, their populations, and communities, on ecoscapes (ecosystem) and ultimately at the level of the biosphere

Paper No. XIII Gymnosperms and Utilization of plants

• Learn link of evolution between angiosperms and gymnosperms, structure. Use of plants in human life.

Paper No.XIV Plant Physiology

• To understand metabolism of plants by learning various physiological cycles

Paper No. XVII Cell Biology and Molecular Biology

• Study of cell structure, functions of various cell organelles, Cell division, nucleic acid and chromosomes

Paper No. XVIIIA Diversity of Angiosperms - I

• Studies on various important plant families with similar characters. Classification systems

Paper No.XXI Genetics and Biotechnology

• Study of DNA, inheritance, Use of genetics in human welfare by using technology

Paper No. XXIIA Diversity of Angiosperms - II

• Studies on various important plant families with similar characters. Various classification systems.

B.Sc. CHEMISTRY

Program Outcome

- To be familiarized with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies.
- Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of chemistry
- To understand basic facts and concepts in Chemistry while retaining the exciting aspects of Chemistry so as to develop interest in the study of chemistry as discipline
- To develop problem solving skills. To develop skills in the proper handling of apparatus and chemicals
- To be exposed to the different processes used in industries and their applications.
- Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
- Synthesize complex information appropriate to the discipline
- Exhibit disciplined work habits as an individual.
- Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment, Society and other cultures outside the scientific community.
- To build a scientific temper and to learn the necessary skills to succeed in research or industrial field

Program Specific Outcome

- To enable the students to know about the radio activity, acid and bases, the role of solvent in chemical reactions
- The ability to explain chemical nomenclature, structure, reactivity, and function in their specific field of chemistry.
- To enable the students to learn about the extraction principles and mechanism of some addition reaction.
- To learn the different theories of reaction rates and factors affecting reaction rates
- To impart essential theoretical knowledge on atomic structure, periodic properties, chemical bonding, and nuclear chemistry.
- To learn atomic structure, basics of the concept of equilibrium
- The students will learn the important analytical and instrumental tools used for practicing chemistry.
- To develop skills for quantitative estimation using the different branches of volumetric Analysis
- To have exposure to various emerging new areas of organic chemistry.
- To give an outline of applied organic chemistry and the applications of organic chemistry in various spheres of chemical sciences.

- Enable the student to get understand the laws of thermodynamics, Adsorption. To know the basic concepts in classical thermodynamics and to learn the thermodynamic aspects of various processes and reactions
- To be able to define and resolve new problems in Chemistry and participate in the future development of Chemistry
- To impart students a broad outline of the methodology of science in general and Chemistry in particular
- To verify the some important principles in physical chemistry and to determine various physical properties
- To give awareness of the Safety in laboratory.
- To give awareness of the principle of inorganic qualitative analysis, and different Analytical techniques
- The students will get training in the quantitative analysis of metal ions and anions using gravimetric method
- To enable the students to learn about the kinetics of reaction To study the magnetic properties of molecules, chemical kinetics and photo chemistry
- To gain skill to apply group theory to vibrational and electronic spectroscopy
- Understanding the need of modern tools in chemical sciences
- To impart the students thorough idea in the chemistry of carbohydrates, heterocyclic compounds, amino acids, proteins and nucleic acids.
- To know the basics principle of different techniques employed in molecular spectroscopy
- Students learn the application of solvent extraction, chromatographies.
- To understand the general characteristics of the d and f block elements
- To give the students a thorough knowledge of the different theories to explain the bonding in coordination compounds.
- To develop the ability to apply the principles of Chemistry.
- Interpretation of collected information and use of information to evaluate Chemical Compounds
- The design and execution of the experiment should demonstrate an understanding of good laboratory and the proper handling of chemical waste streams and also explain how the applications of Chemistry relates to the real world.
- To impart the students a thorough knowledge of Systematic qualitative analysis of mixtures containing two acid and two basic radicals with interfering radical by Semi micro method

Course Outcome

Paper No.I Inorganic Chemistry

• This course will provide an insight into some of the fundamental concepts and Principles those are very essential in the study of chemistry.

Paper No.II Organic Chemistry

- To predict the outcome and mechanism of some simple organic reactions, using a basic understanding of the relative reactivity of functional groups.
- To make students capable of understanding and studying nomenclature and classification of organic compounds, organic reactions
- To know stereochemistry and various possible conformations of organic compounds and how it affects the reaction outcome
- To understand the role of various reaction intermediates like carbanion, carbocation, carbenes, radicals etc. in organic reactions

Paper No.IV Physical Chemistry

- This course gives the student idea about the nature and purity of the crystal
- To understand the general characteristics of different states of matter. To impart knowledge to the students about the intermolecular forces in gases and liquids, the structure of solids, Defects in solids

Paper No.V Inorganic Chemistry

- To enable the students to get a clear idea about the molecular structure
- To have a basic idea about nuclear Chemistry and its applications

Paper No. III & VI Lab Course

- Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.
- To develop skills required for the qualitative analysis of organic compounds, determination of physical constants.
- To impart the students a thorough knowledge of Systematic qualitative analysis of mixtures containing two acid and two basic radicals

Paper No.VII Organic Chemistry

- To enable the students to understand and study Organic reaction mechanisms.
- The students will understand some fundamental aspects of organic chemistry. They will learn mechanism of some organic reactions,
- To acquaint knowledge on Aromaticity and coordination chemistry

Paper No.VIII Physical Chemistry

- To provide an insight into the characteristics of different types of solutions and electrochemical phenomena.
- To learn ionic equilibrium and electrical properties of ions in solution

Paper-X Inorganic Chemistry

- To understand the magnetic properties of complexes and to know how magnetic moments can be employed for the interpretation of their structure
- To learn the concepts of acids and bases, pH and buffer solutions.

Paper No.XI Physical Chemistry

- To study phase diagrams and elementary idea of catalysis.
- Students to learn about electro chemistry. To study EMF, pH and their applications.
- Electrochemistry discussed electrical properties of ionic solutions. Different applications are there of this course.

Paper No.IX & XII Lab Course

- To enable the students to know about principles and applications of Analytical techniques,
- Evaluation of Analytical data, Statistical texts and data, Theory of Quantitative Analysis, Gravimetric methods
- Enable the students to estimate the binary mixtures of metallic ions by volumetric and gravimetric methods

Paper No.XIII Physical Chemistry

- This course also discusses details of synthesis, structure of some specific nano molecules.
- To enable the students to solve the simple quantum mechanical models such as simple harmonic oscillator, particle in a 1D- box, rigid rotor, H atom etc.
- To impart a thorough knowledge of the fundamentals of microwave, infra red, Raman, electronic and magnetic resonance spectroscopy.

Paper No.XIV Organic Chemistry

- This course gives a detail knowledge to the student about the analysis of statistical data they got through from different chemical experiment.
- To identify organic compound using UV, IR and PMR spectroscopic techniques and elucidate the structure of compounds by analyzing the spectral data
- This course will give insight into the processes involved in the production of soaps, detergents, cosmetics

Paper No.XVI Inorganic Chemistry

- This course discussed about the synthesis and properties of these organometallics, important in biological bodies like haemoglobin, chlorophylls, Vitamin B12, metal carbonyls and metal clusters
- This course gives student knowledge about the synthesis of different complexes and their analytical study by spectroscopy
- To understand the functions and applications of bioorganic compounds, valence bond and molecular orbital theory

Paper No.XVII Organic Chemistry

• To enable the students to learn about carbohydrates, amino acids and hetero cyclic compounds.

• To understand the importance of carbohydrate, amino acids in chemistry

Paper No.XV & XVIII Lab Course

- Students will gain an understanding of methods of analysis related to chemical analysis such as detection of function groups.
- The students will develop basic skills in the techniques of crystallization, distillation, TLC.
- To learn the separation and purification of an organic mixture by chemical/solvent separation methods, Enable the students to prepare organic compounds

B.Sc PHYSICS

Programme Outcome

- The B.Sc programme enabled the students to enhance their critical thinking, during the three year period of study and the curriculum stimulates the mental thoughts and assumptions of the students.
- This helps the students to take up practical work and compare the results with their assumptions, there by leading to accuracy and validity of the practical knowledge.
- This Analysis leads to take decisions at intellectual, organizational and personal from different perspectives of life.
- On successful completion of Bachelor of Science programme, students will develop a scientific temper, critical thinking, problem solving skills, and research attitude for the betterment of the society.
- To enhance the student's academic abilities, personal qualities and transferable skills which will give them an opportunity to develop as responsible citizens
- To define the basic laws involved in Physics
- To understand the concepts and significance of the various physical phenomena.
- To carry out experiments to understand the laws and concepts of Physics.
- To apply the theories learnt and the skills acquired to solve real time problems.
- To acquire a wide range of problem solving skills, both analytical and computational and to apply them.

Programme Specific Outcome

Mathematics/Physics/Chemistry

- Capable of analyzing and solving problems using reasoning skills based on concepts of Physics.
- Know and demonstrate understanding of the concepts from different branches of Mathematics
- Develop the knowledge, skills and attitudes necessary to pursue further studies in Mathematics and research in Mathematics.
- Understand the diverse applications of various fields of basic science and carry the knowledge and applications of basic sciences to community
- Students will be able to understand the fundamental theories, concepts and applications in four basic areas of research in chemistry (Analytical, Inorganic, Physical & Organic). Develop the ability to explore new areas of research in Chemistry and allied field of Life sciences.

Mathematics/Physics/Computer Science

- Know and demonstrate understanding of the concepts from different branches of Mathematics
- Develop the knowledge, skills and attitudes necessary to pursue further studies in Mathematics and research in Mathematics
- Understand core physical concepts, principles and theories along with their applications
- Develop proficiency in the analysis of complex physical problems and the use of mathematical or other appropriate techniques to solve them.

- To provide comprehensive understanding of programming concepts and to understand software development as a part of Computer Science
- Demonstrate proficiency in problem-solving techniques using the compute

Course Outcome

Paper No. II: Heat and Thermodynamics

• Relating to thermodynamic knowledge the student gain the knowledge of refrigeration cooling technology

Paper No. IV: Geometrical and Physical Optics

- This course provides students with a working knowledge of optical physics, including diffraction, interference, and polarisation and laser physics.
- This paper aims to impart a detailed knowledge in Optics, fiber optics, holography ,Basic ideas in image formation ,as scientific assistant in space research and Progression to PG education in Physics

Paper No.I PHY-101: Semester I Mechanics and Properties of matter and sound

- Learner will understand basic theorems and concepts of basic physics.
- To understand concept of gravitation, gravitational field, gravitational potential.
- To understand the dynamics of different types of compound pendulum and to determine 'g'.
- To understand the elastic properties of matter and expression of bending beam with its application as a cantilever. 5. To understand concept of Viscosity.
- To understand concept of fluid flow and pressure energy in fluids.
- To determine Bernoulli's Theorem and its applications: (i)Filter Pump (ii) law of Hydrostatic Pressure
- To design experiment to determine coefficient of viscosity by using Poiseuillie's equation.
- To understand concept of surface tension and its relation with excess pressure and radius of curvature.
- To determine the surface tension by Jaeger's method from experiments.
- To understand Piezo-electric effect, Magnetostriction Effect
- To understand generation of Ultrasonic waves
- .Applications of Ultrasonic Waves: Depth of sea, Chemical Effects, Medical Applications.
- To understand concept of sound waves.
- Reverberation, Propogation of sound.
- Acoustical demand of Auditorium, conditions of good acoustical designs of room.
- Sabines law and its derivation.
- To develop basic skills to perform experiments to understand the concept from existing theories of Basic physics.

Paper No. V PHY-105: Semester II Electricity and Magnetism

• To understand basic concept of vector algebra.

- To understand Triple product of Vectors and scalars.
- To understand Physical significance and geometrical significance of triple product.
- Apply techniques of vector analysis, such as gradient of scalar, divergence of vector, curl of vector
- To understand line, surface and volume integrals.
- To understand Gauss Divergence theorem and Stoke's Theorem.
- To understand concept of static charges, Electric field ,flux.
- To understand and derive Gauss law in electrostatics, its differential form.
- To understand concept of electric dipole, potential and field due to dipole.
- To understand concept of dielectrics, relation between D,E,P.
- To understand the concept of magnetism and and magnetic properties of materials.
- To understand concept of magnetic induction. Biot Savert Law, Ampere Law. Construction and working of Moving coil Galvanometer
- To determine Time constant of L-R and C-R circuit and its physical significances. Growth and decay of currents in various circuits.

Paper No. VIII PHY 202: Modern and Nuclear Physics

- To understand concept of Photoelectric effect.
- To study different methods to determine photoelectrons, Lenards method to study e/m, Richardson and Compton expt.
- To study various types of photoelectric cells and their applications.
- To understand the Origin and nature of x-ray.
- To study various experimental methods such as Laue, powder crystal methods.
- To understand Bragg's law and Bragg's spectrophotometer.
- Characteristic x-ray spectra, continuous X- ray spectra.
- To understand nuclear compositions and Elementary particles, charge symmetry and independence, spin dependence of nuclear force.
- To state Law of radioactive decay and its application.
- To distinguish between Types of nuclear models: Single particle shell model and Liquid drop model.
- To understand nuclear reactions and conservation laws.
- To understand nuclear fission on the basis of liquid drop model and nuclear fusion.
- To understand basic principles and classification of Nuclear Reactor.
- To learn types of detectors and classification of accelerators.

Paper No. XI PHY 205: General Electronics

- To study construction, I/O characteristics and working of various semiconductor devices such as diode, transistor, FET and MOSFET.
- To study various biasing methods of transistor biasing, stability factors, Q point.
- To study various amplifier circuits using transistor.

- To study noise and feedback in amplifiers.
- To study OPAMP, its characteristics, configuration and applications as a adder and subtractor.
- To understand principle of oscillators and multivibrators. H parameters, various oscillator circuits.
- To understand various types of multivibrator circuits.
- To understand concept of Modulation and Demodulation. Types of modulations :FM, AM and PM. Advantages of modulation.

Paper No.VII Mathematical and statistical Physics Relativity

• Enable the students to have understanding of statistical ideas, diff.equations

Paper No.XII Solid state Physics

• Enable the students to have a physical understanding of matter from an atomic view point. Topics covered include the Crystal structure, bonding and electrical conductivity

Paper No. XVI PHY 302: Electrodynamics

- To state Gauss law and its application to obtain electric field for different cases.
- Describe and explain the relationship between the electric field and the electrostatic potential.
- Understand the relation between Electric displacement vector D, Susceptibility, Permittivity, Dielectric constant.
- To understand Faradays laws of EM induction .
- To understand the concept of electromagnetic induction, self induction of solenoid, mutual induction of coaxial solenoid
- Be able to solve relevant theoretical problem and use their conceptual understanding of the electromagnetic laws in order to qualitatively describe the behavior of the solution to the problem.
- Understand origin of Maxwell's equations in magnetic and dielectric media, Write down and derive Maxwell's equations in linear, isotropic, homogeneous media
- To derive continuity conditions on electromagnetic fields at boundaries
- To derive electromagnetic wave solutions and propagation in conducting and other media and understand transport of energy and Poynting vector.
- To understand Polarization of EM waves.
- To study the interaction of electromagnetic waves with matter.
- To Show laws of geometric optics originate with Maxwell's equations at dielectric boundaries calculate reflection and transmission coefficients for waves at dielectric boundaries.

Paper No.XIX PHY 305: Atomic and Molecular Physics and LASERS

Upon successful completion of this course it is intended that a student will be able to:

- To explain Thomson atom model, Rutherford Nuclear model.
- To explain Bohr's atom model, Bohr's theory of spectral lines.
- Diagrammatic representation of Hydrogen atom spectra.
- State and explain the key properties of vector atom model and the importance of the Pauli Exclusion Principle.

- To explain the observed dependence of atomic spectral lines on externally applied electric and magnetic fields.
- To state and justify the selection rules for various optical spectroscopies in terms of the symmetries of molecular vibrations. List different types of atomic and molecular spectra and related instrumentation.
- Describe theories explaining the structure of atoms and the origin of the observed spectra
- Identify atomic effect such as space quantization and Zeeman Effect.
- To understand molecular spectra, Rayleigh scattering.
- To understand Raman Effect, applications of Raman Effect. To understand nature of liquids, Crystal Physics, nuclear physics, Chemical effects.
- To understand LASER, various emissions involved in lasing action, properties of LASER, pumping schemes.
- To study types of LASERs.
- To study application of LASERs.

Paper No.XV Classical and Quantum mechanics

• Recognize basic terms and principles of Quantum mechanics, to design and construct particle equation in free and bound state and to solve equation

Paper No.XX Non conventional energy sources and optical fibres

- Understanding of Importance and need of Non conventional energy sources ,their merits and demerits and technical details.
- Fabrication of optical fibres and their use in communication systems.

BSc. MATHEMATICS

Program Outcome

Know how and where to use technology

Investigate and solve unfamiliar math problem

Investigate and apply mathematical problems and solutions in a variety of contents related to science and technology, business and industry and illustrate these solutions using symbolic numeric or graphic methods

To apply the knowledge of subjects in other faculties like humanities, social sciences

The skills of observations and drawing logical inferences from the scientific experiments

Program specific outcome

- Think logically
- Formulate and develop mathematical arguments in a logical manner.
- Acquire good knowledge and understanding in advanced areas of mathematics.
- Application of mathematics can be used in every sector like social science, all sciences business and other contexts.

Course Outcome

Paper No. 101 Differential and vector calculus

- Define limit continuity, function, hyperbolic function
- Find nth order derivative of the products of the powers of sines and cosines
- Prove Leibnitz's theorem.
- State Rolle's Theorem, lagrange's mean theorem, Cauchy's mean value theorem
- Prove Taylor's theorem
- Define: Limit of a function of two variable continuity of a function of two variable at a point, homogeneous function.
- State Euler's theorem on homogeneous functions, total differentials, differentiate implicit function.
- Define: Scalar and Vector valued point functions, directional derivative of point functions along co-ordinate axes.
- Define: Gradient, Operator, Divergence and curl.

Paper No. 201 Integral calculus and vector calculus

- Understand case of non-repeated linear factors, case of non-repeated linear or repeated linear factors, case of linear or quadratic non-repeated factors.
- Solve integration of $\sin^n x$, $\cos^n x$ and reduction formulae for integration of $\sin^{-n} x$, $\cos^n x$.
- State fundamental theorem.
- Find areas of plane regions, length of plane cureves, volumes and surfaces of revolution.
- Define line integrals, circulation, irrotational vector point functions, surface and volume integral

• Interpretation of Gauss theorem.

Paper No. 301 Number Theory

- State and prove division algorithem, Find GCD
- State Euclidean algorithm and Diophantine equation ax+by =c
- State Fundamental theorem of arithemetic
- Solve basic properties of congruences.State and Fermat's and wilson's theorem
- Introduce Eulers phi-function, T and 6
- State Euler's theorem Find the Mobius inversion formula.

Paper No. 401 Numerical Anaylsis

- State Bisection method, newton's-Raphson method
- Find finite differences, forward differences, backward differences, differences of a polynomial
- Describe symbolic relation and separation of symbols
- Calculate Newton's formulae for interpotetion
- Understand Lagrange's interpolation formula
- State Hermite's interpolation formula
- Calculate divided differences and their properties
- State newton's general interpolation formula
- Use Least-squares curve fitting procedures
- Understand fitting a straight line
- Find chebyshev polynomials
- Find solutions of different linear system of equations
- Find Numberical solution of ordinary differential equations

Paper No. 501 Abstract Algebra

- Understand sets, functions, integers
- Define group
- Understand subgroup, Normal subgroup, quotient groups
- Define homomorphism and automorphism
- Describe different types of rings
- Understand vector spaces and modules

Paper No. 303 Mechanics

- Define Rigid body, forces, Equilibrium, statics
- Understand complete theory of forces acting of a particle
- Describe theory related with equilibrium of forces acting on a particle
- Find forces acting on a rigid body
- Understand centre of gravity

- Define velocity and acceleration in terms of derivatives
- Describe Newton's law of motion, matter, Linear momentum, Angular momentum, work, energy.
- Illustrate rectilinear motion, projectile Motion of projectile, projectile to pass trough a given point
- Understand theory related to central orbits.

Paper No.102 Differential Equation

- Explain meaning of differential equation
- Classifies the differential equations as per order and linearity
- Solve first order linear differential, exact differential & Bernoulli's equations
- Solves the Linear differential equations with constant coefficients as well as variable coefficients of higher order.
- Solves the simultaneous and special form of differential equations
- Solves the first order partial differential equation find out partial derivatives.

Paper No.202 Geometry

- To understand geometrical terminology for planes, lines, spheres, cones and cylinder, the conicoid
- Solves the problems on different concepts of every subtopic
- Develop the theoretical formulae for different concepts

Paper No.302 Integral Transform

- Student will able to
- Explains the concept of Laplace transform.
- Explains basic properties of Laplace transform.
- Find Laplace transform of derivative integral, multiplication by t, division by t, unit step function of f(t).
- Express inverse Laplace transform & develop all formulae
- Solves linear differential equation using Laplace transform
- Explain the special functions Beta & Gamma functions its transformations & solves the examples.
- Student will able to
- Solve linear as well as non-linear partial differential equations.
- solves the partial differential equations of first degree and any order by methods Charpit's Methods & Jacobies Method.
- Determine complementary function and particular integral of given partial differential equations
- Solves partial differential equations of 2nd order
- Classify the 2nd order partial differential equations in canonical forms.

Paper No.501 Real Analysis

- Define the concepts of sets, subsets, finite, infinite power, singletons sets
- Explains all sets operations

- Define functions as well as different types of functions
- Define real valued, complex valued functions as well as countable & uncountable set & study all existing sets.
- Define sequences & services
- Established theorems and solve problems related to sequences & series
- Explain concept of Jacobians & solve examples on this concepts.

Paper No. 504 Ordinary Differential Equation – I

- Define complex number and its properties, construct theory & solve examples on it.
- Solves determinant for given system.
- Explains the linear differential equations, develop theory of homogeneous & non-homogeneous equations & solves examples on it.
- Define linear equations of 2nd order homogeneous & non-homogeneous equations.
- Solve the examples & establish the theory related to it.

Paper No.601 Real Analysis

- Define concept of Metric space, limit in metric space.
- Familiar with the concept of basic proof techniques & fundamental concepts such as connectedness, completeness & compactness.
- Explain the Riemann integral & its properties solve examples on it.
- Explain the concept of Fourier series & solve examples on it.

Paper No.604 Ordinary Differential Equations -II

- Explain the linear differential equations with variable coefficient. Develop the theory related initial value problem i.e. existence & uniqueness theorems
- Explain the concept of wroskian as well as apply theoretical concept to solve the examples
- Solves homogeneous equations with analytical coefficients
- Solve Legendre equations
- Study linear equations with regular singular points and solve examples on it.

B.Sc. ZOOLOGY

Program outcome

- Solve the problem and also think methodically independently and draw a logical conclusion.
- Demonstrate, solve and an understanding of major concepts in all disciplines of major concepts in all disciplines of zoology.
- Understand the evolution, history of phylum
- Create an awareness of the impact of Zoology on the environment, society and development outside the scientific community.
- To study and understand the classification of whole phyla includes in nonchosdotes with the help of charts, models and pictures.
- To inculcate the scientific temperament in the students and outside the scientific community.
- Use modern techniques, decent equipment and zoology software's

Program Specific outcome

- 1. Given the knowledge of zoology through theory and practical.
- 2. Use modern Zoological tools, models, charts, and Equipment
- 3. To understand good laboratory practicals and safety.
- 4. To develop research oriented skills.

Course Outcome

Paper No. I Protozoa to Annelida

- To understand the life cycle and classification of Animal.
- To study the development and control measures.
- To study and understand the whole cell organelles with their structure and functions.
- The scope of cell biology because cell is the basic unit of life.

Paper No. V Arthropoda to Echinodermata and Protochordata

- Demonstrate solve and understand of major concept in all discipline of Zoology.
- To know the characters and development of the animals to the students.
- To use modern zoological tools, models and charts equipment.

Paper No. IX Vertebrate Zoology

- To understand the study of the life cycle and development of animals.
- To study General Character and Embryological and placenta of mammals.

Paper No. XII Biochemistry and Endocrinology

- To understand digestion and absorption of protein, carbohydrate & lipids
- To understand fat bodies, structure, physiology biochemistry, function of fatty acid metabolism

Paper No. XVIII Fishery Science I

- To understand the fish culture and preparation, management of fish culture and ponds
- Transport of fish seeds and brood fish and harvesting, preservation, processing of fish and fish pathology
- Students acquire knowledge through practical work in field and laboratory

Paper No.XXII Fishery Science II-

- To study definition and history.
- Brackish water, major reservoir and capture fisheries.

Paper No. II Cell Biology

- Describe the components, types of cells and its organelles
- Diverse role of cell system in energy generation and tissue organization
- Familiarize the coordination between different organelles and its role in cell function
- Learners will understand the cellular components underlying mitotic cell division

Paper No. V Genetics I

- Understanding the science of Heredity and Variations
- Role of genetics in Evolution
- To analyze and solve the problems based on Genetics I
- Students will learn the genetic disorders and its chromosomal role
- Genic inheritance and Mendelian inheritance

Paper No. VIII Genetics II

- To understand the role of genes in the control and expression of characters
- Biomolecule DNA and its function
- To accurately diagram and describe the processes of replication, transcription, translation, as well as predict the outcomes of these processes
- Study of genetic variation within populations in population genetics
- Gain knowledge of chromosomal role in inheritance, inborn errors, syndromes etc.
- Familiarize the applications and techniques of modern genetic technology and its use in medical science

Paper No. XI Animal Physiology

- Fundamental processes and mechanisms that provide and control the various functions of the body
- Students will be able to integrate the regulation of organ system and functions
- To learn the mechanisms that operates in living organisms ranging from the cellular to the coordinated *animal* level
- Training the students with all the required knowledge and skills in regards to life regulating process

Paper No. XV Ecology

- Discerning the knowledge of Ecological systems at different spatial and temporal level
- Perceiving the types of abiotic and biotic factors, its effect on the distribution, dispersal, and behavior of organisms
- Develop deeper understanding of food chains and food webs, ecological pyramids
- Describe the ecological successions and various ecosystems

Paper No.XIX Evolution

- Understand the evidences of evolution through different theories
- Role of genetics in evolution, Hardy-Weinberg law its application
- Awareness of environment, natural elemental forces in evolution
- Through knowledge of the process of speciation
- Role of heredity and variation in evolution

BSc Computer Science (Optional)

Program Outcome

- Computer Science is a dynamic subject, demand frequent updation of syllabus and sync the student with need of industry.
- Serve as the IT Officers in Banks and Cooperative societies. Work as DTP Operator in small-scale industries.
- Work as Consultant and Management officers for system management. Work as IT Sales and Marketing person.
- Serve as the Web Designers with latest web development technologies.

Program Specific Outcome

- All theoretical concepts are implemented in practical which make a student industry ready.
- Content of the course prepare a student for self entrepreneurship.
- The syllabi of the course are a good platform for higher level course in computer science.
- The course is designed to support automation and digitization in all walks of life.
- The ability to understand, analyze and develop software programs in the areas related to system software, multimedia, web design, application program, database, graphics and networking for efficient design of technology of varying complexity.

Course Outcome

Paper No. CSO1 Computer Fundamentals

- On successful completion of this subject the students have overall introduction to Computer Hardware.
- Understanding the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming

Paper No. CSO2 Digital Electronics

- 1. Understand the current voltage characteristics of semiconductor devices.
- 2. Analyze dc circuits and relate ac models of semiconductor devices with their physical Operation
- 3. Design and analyze of electronic circuits
- 4. Evaluate frequency response to understand behaviour of Electronics circuits

Paper No. CSO4 Operating System

- Analyze the structure of OS and basic architectural components involved in OS design
- Analyze and design the applications to run in parallel either using process or thread models of different OS
- Analyze the various device and resource management techniques for timesharing and distributed systems
- Understand the Mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system

Paper No. CSO5 Programming in C

- To demonstrate the ability to design creative solutions to real life problems faced by the industry.
- To communicate technical topics in written and verbal forms.
- Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general

Paper No. CSO7 Advance C Programming

- To demonstrate the ability to design creative solutions to real life problems faced by the industry.
- To communicate technical topics in written and verbal forms.
- Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general.

Paper No. CSO8 - Data Structure

- Select appropriate data structures as applied to specified problem definition.
- Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.
- Students will be able to implement Linear and Non-Linear data structures.
- Implement appropriate sorting/searching technique for given problem.

Paper No. CSO11 - Programming in CPP

- Be able to understand the difference between object oriented programming and procedural oriented language and data types in C++.
- Be able to program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.
- At the end of the course students will able to simulate the problem in the subjects like Operating system, Computer networks and real world problems.

Paper No. CSO12 DBMS Using SQL

- Understand, analyze and apply common SQL statements including DDL, DML and DCL statements to perform different operations.
- Design different views of tables for different users and to apply embedded and nested queries.
- Design and implement a database for a given problem according to well known design principles that balance data retrieval performance with data consistency.

Paper No.CSO15 -Software Engineering

- Understand and demonstrate basic knowledge in software engineering.
- Identify requirements, analyze and prepare models.
- Plan, schedule and track the progress of the projects.
- Design & develop the software projects.
- Identify risks; manage the change to assure quality in software projects.

• Apply testing principles on software project and understand the maintenance concepts.

Paper No.CSO16 -Web Designing

- Understand the functions of clients, servers, the HTTP protocol and HTML with scripting languages.
- Be able to write a well-formed HTML page.
- Be able to employ Cascaded Style Sheets.
- Perform a simple analysis of the structure of the web.

Paper No.CSO19 – Data Communication and Networking

- To explain how communication works in computer networks and to understand the basic terminology of computer networks.
- To explain the role of protocols in networking and to analyze the services and features of the various layers in the protocol stack.
- To understand design issues in Network Security and to understand security threats, security services and mechanisms to counter them.

Paper No.CSO20 -E-Commerce

- Understand the basic concepts and technologies used in the field of management information systems.
- Be aware of the ethical, social, and security issues of information systems

B.C.A. Management Science

Programme Outcome

- To provide thorough understanding of nature, scope and application of computer and computer languages
- To develop interdisciplinary approach among the students
- Able to design and develop reliable software applications for social needs and excel in IT enabled services.
- Proficient in successfully designing innovative solutions for solving real life business problems and addressing business development issues with a passion for quality, competency and holistic approach
- Capable of adapting to new technologies and constantly upgrade their skills with an attitude towards independent and lifelong learning

Program Specific Outcome

- To pursue further studies to get specialization in Computer Science and Applications, Economics, Mathematics, business administration
- To pursue the career in corporate sector can opt for MBA.
- To Work in the IT sector as programmer, system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- To work in public sector undertakings and Government organisations.
- For teaching in Schools and Colleges

Courses Outcomes

Paper No. I Financial Accounting I

- To prepare students about important financial accounting concepts
- To give the practical knowledge of accounting to the students. To make the students competent in preparation of Accounts for the Business Entities.
- To study the fundamental Accounting concepts, terms, jargons and learn the process of recording of financial transactions in the books of Accounts.
- To develop the foundation for higher studies in the field of accounting

Paper No. II Industrial Economics

• The objective of this subject is to develop a basic understanding about the Principles of Economics.

Paper No.III Business Statistic's

• To impart the required knowledge of Mathematics and statistics for managerial activities among students

Paper No. IV Operating System

- Ability to apply CPU scheduling algorithms to manage tasks.
- Initiation into the process of applying memory management methods and allocation policies.
- Knowledge of methods of prevention and recovery from a system deadlock

Paper No. V Communication Skill I

- **Reading Skills:** Ability to read English with ability to read English with understanding and decipher paragraph patterns, writer techniques and conclusions.
- Writing Skills: Skill to develop the ability to write English correctly and master the mechanics of writing the use of correct punctuation marks and capital letter.
- Listening Skills: Ability to understand English when it is spoken in various contexts.
- **Speaking Skills:** Develop the ability to speak intelligibly using appropriate word stress, sentence stress and elementary intonation patterns.

Paper No. VI Basics of Web Technology

- Ability to develop web pages using HTML and Cascading Style Sheets.
- To introduce knowledge in web technological concepts and functioning internet

Paper No. VII Accountancy II

- Introduction to Goodwill of Partnership, Accounts of Non trading Concern
- Knowledge of Company final Accounts, Single Entry System

Paper No. VIII Industrial Organization

Learn the concept of Industrialization, Scale of Operation and size of Business Knowledge about concept of concentration of power, Industrial policy, Corporate structure of Business

Paper No. IX Mathematics

- Develops formal reasoning, Creates habit of raising questions.
- Knowledge regarding the use of Mathematics in Computer Science, Helpful in formulating questions.

Paper No. X Programming in C

- Learn how to build by the algorithms for problems, how to create pictorial representations of the program.
- Learn how to apply logic for problems, Enhance their programming skills

Paper No. XI Principle of Management

- To acquaint the students with the basic Business Management concept & process.
- To provide a basis of understanding to the students with reference to working of business organization through the process of management.
- To familiarize the students with the basic Management concept & process

Paper No. XII Basics of Web Technology II

- Ability to develop web pages using HTML and Cascading Style Sheets.
- Skill to create XML documents and, languages to build dynamic web pages.
- Familiarization with Web Application Terminologies, Internet Tools, E Commerce and other web services, ability to develop database applications with MySQL

Paper No XIII Principles of Management

• To learn and acquaint the student with the basics of management ,Managerial planning and decision making, staffing and organization ,directing controlling and Recent Trends in Business Management

Paper No. XIV Oops using CPP

- Know the principles of OOPs concept and control structure
- Analyse the concept of classes and object, array, functions, constructor and destructor
- Understand the concept of inheritance and classification, pointers, virtual function and polymorphism
- Able to work with files, file pointers and its manipulations

Paper No. XV Business Law I

- Learn Indian Contract Act 1987,Sell Of Goods Act 1939,Negotiable Instrument Act 1881,Consumer Protection Act(Amended Act 2002) and Cyber and IT Act 2000..
- Understand the basic structure, rules & powers of consumer protection act.
- To know the provision regarding strikes and lock outs under industrial dispute act.

Paper No. XVI-DBMS

- Understand database concepts and structures.
- Understand the objectives of data and information management. Understand data modelling and database development process.
- Construct and normalize conceptual data models. Implement a relational database into a database management system. Become proficient in using database query language, i.e., SQL.

Paper No. XVII E-Business Essentials

• To prepare students to acquire the knowledge of recent trends in e-commerce. Also, students are prepared for website management which can helpful in industry

Paper No. XVIII RDBMS

- To inculcate knowledge on RDBMS concept and programming with oracle
- Give an introduction about RDBMS, data models, a schema, E-R Diagram, relational database and benefits of database.
- understand the basic concepts of Relational Database, procedures, functions and transactions

Paper No XIX Cost Accountancy

- Understand the concept of Cost accounting, costs.
- Learn how to prepare of cost sheets
- Use of material and wages in Business

Paper No. XX Business Law II

• Learn Companies Act, Negotiable Instruments Act, Factories Act and Payment of Wages Act

Paper No. XXI Entrepreneurship

- Understand the Concept, Philosophy evolution, development and qualities of Entrepreneur
- Prepare a functions and settings of Entrepreneur and SSI

Paper No. XXII Java Programming

- Understand the concept of OOP as well as the purpose and usage of inheritance, polymorphism, encapsulation and method overloading.
- Identify classes, objects, members of a class and the relationships among them needed for a specific problem.
- Create Java application programs using sound OOP practices (e.g., interfaces and APIs) and proper program structuring (e.g., by using access control identifies, automatic documentation through comments, error exception handling).
- Use testing and debugging tools to automatically discover errors of Java programs as well as use versioning tools for collaborative programming/editing.
- Develop programs using the Java Collection API as well as the Java standard class library

Paper No. XXIII MIS & DSS

- Introduction to MIS,DIS
- Learn how to make decision by using various methods.
- Use of Framework, Components of MIS and DSS

Paper No. XXIV Networking and Web Design

- Learn the need to create a Network, different layers and protocols present in those layers.
- Learn to configure the network devices, IP -Addressing.
- Ability to develop web pages using HTML and Cascading Style Sheets.
- To introduce knowledge in web technological concepts and functioning internet•

Paper No. XXV Management Accounting

- To familiarize the students with the basic Management Accounting concept & process.
- Learn Analysis and Interpretation of Financial statement, Funds flow analysis, Cash Flow analysis, Ratio Analysis

Paper No. XXVI Organisation Behaviour

- To prepare students to understand Human Behaviour at work
- To study Human behaviour at work
- To get knowledge of Individual & Interpersonal perspectives
- To get in depth knowledge of motivation, leadership and organizational change

Paper No. XXVII Business Elective

- Banking & Insurance Knowledge of Basics of Banking, Bank Deposit Account, Negotiable Instruments and Insurance
- Learn Business needs fund for establishment, growth ,and Development

Paper No. XXVIII RDBMS using Oracle

- To inculcate knowledge on RDBMS concept and programming with oracle
- Give an introduction about RDBMS, data models, a schema, E-R Diagram, relational database and benefits of database.
- Understand the concepts of database architecture, client server architecture, parallelism concepts and distributed database concepts
- Learn about indexes, sequences, data integrity, creating and maintaining tables and user privileges
- understand the basic concepts of Relational Database, procedures, functions and transactions

Paper No. XXIX VB

- 1. know the working environment of visual basics using a control structure
- 2. Understand the module, components and menu editor and its concept in a simple manner
- 3. Analyze a control such text box, rich text box and etc.
- 4. Write coding easily
- 5. develop the project with database using ODBC, DAO, ADO and visual data manager
- 6. Include the active controls and other control to perform particular task

Paper No. XXX IT Elective -- Internet Programming

- Knowledge of Basic of Internet like WWW, Protocols Domain name
- Knowledge of client-side (JavaScript) and server-side scripting (PHP, ASP.NET) languages to build dynamic web pages.
- Familiarization with Web Application Terminologies, Internet Tools, E Commerce and other web services

Paper No. XXXI Business Law III

- Learn the Concept of cyber crime and the IT Act 2000, contracts and copyright and Digital Signatures.
- Learn how the protection of cyber consumers in India

Paper No. XXXII Business Elective II -- Service Marketing

• Understand concepts, philosophies, processes and techniques of managing the service of operations of a firm

Paper No. XXXIII Elements of Commercial Portal

- Learn the basic terminology of internet Technology, Various Mark-up Languages
- Comprehensive knowledge of Internet and its working.
- Ability to use services offered by internet.
- Skill to develop websites using HTML and DHTML, Web server and Web server software

Paper No. XXXIV System Programming

- Learn about components of system programming
- Learn about Machine structure, Machine Language and Programming Languages

Paper No. XXXV IT Elective -- Mobile Computing

- Identify constraints, uncertainties and risk of the system (social, cultural, legislative, environmental, business etc.
- Identify and apply relevant problem solving methodologies.
- Design components, systems and/ or processes to meet required specification.
- Demonstrate research skills.

Paper No. XXXVI Project

- Skill to apply Software Development Cycle to develop a software module.
- Ability to use the techniques, skills and modern engineering tools necessary for software development.
- Develop a software product along with its complete documentation

B.Sc. Computer Science (B.C.S.)

Programme Outcome

- A degree in B.Sc. Computer Science puts a good platform for fundamentals of Computer Science, becomes a stepping stone student's professional career.
- Computer Science having a dynamic subject, demand frequent updating of syllabus and synchronous the student with need of industry.
- Serve as the IT Officers in Banks and cooperative societies. Work as Consultant and Management officers for system management, IT Sales and Marketing person, serve as the Web Designers with latest web development technologies.

Program Specific Outcome

- All theoretical concepts are implemented in practical which make a student industry ready.
- Content of the course prepare a student for self entrepreneurship.
- The course is designed to support automation and digitization in all walks of life.
- The ability to understand, analyze and develop software programs in the areas related to system software, multimedia, web design, application program, database, graphics and networking for efficient design of technology of varying complexity

Course Outcome

Paper No. Paper No. CS101-T Computer Fundamentals

- On successful completion of this subject the students have overall introduction to Computer Hardware.
- Understanding the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming.

Paper No. CS102-T Digital Electronic

- Design and analyze of electronic circuits
- Evaluate the working of digital circuits such as register, filp flop, etc... response to understand behavior of Electronics circuits

Paper No. CS103-T Microprocessor-I

- Assess and solve basic binary math operations using the microprocessor and explain the microprocessor internal architecture and its operation within the area of manufacturing and performance.
- Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor.
- Analyze assembly language programs

Paper No. CS104-T C Programming - I

- On successful completion of this subject the students have the knowledge about S/W and what are the languages to develop that.
- Understand the fundamentals of C programming including programming ability.
- Choose the loops and decision making statements to solve the problem.
- Implement different Operations on arrays

Paper No. CS105-T Communication Skill-I

- Understand the process of communication and its effect on giving and receiving information.
- Learn about historical and theoretical developments in the field of communication.
- Apply effective communication skills in a variety of public and interpersonal settings.
- Develop analytical, research, and organizational skills

Paper No. CS106-T Mathematical Foundation

- Ability to apply mathematical logic to solve problems.
- Understand sets, relations, functions and discrete structures.
- Able to use logical notations to define and reason about fundamental mathematical concepts such as sets relations and functions.
- Able to model and solve real world problems using graphs and trees.

Paper No. CS201-T Data Structure

- Select appropriate data structures as applied to specified problem definition.
- Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.
- Students will be able to implement Linear and Non-Linear data structures, sorting / searching technique for given problem

Paper No. CS202-T Operating System

- Analyze the structure of OS and basic architectural components involved in OS design.
- Analyze and design the applications to run in parallel either using process or thread models of different OS.
- Analyze the various device and resource management techniques for timesharing and distributed systems.
- Understand the Mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system.

Paper No. CS203-T Microprocessor - II

• The students will be able to implement 8086 assembly language programming

Paper No. CS204-T C Programming - II

- To demonstrate the ability to design creative solutions to real life problems faced by the industry.
- Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general.

Paper No. CS205-T Communication Skill - II

- To demonstrate his verbal and non-verbal communication ability through presentations.
- To stimulate their Critical thinking by designing and developing clean and lucid writing skills.
- To demonstrate his verbal and non-verbal communication ability through presentations.

Paper No. CS206-T Numerical Computation Methods

- Apply various interpolation methods and finite difference concepts.
- Work out numerical differentiation and integration whenever and wherever routine methods are not applicable.
- Work numerically on the ordinary differential equations using different methods through the theory of finite differences

Paper No. CS301-T Advance Data Structure

- To access how the choices of data structure & algorithm methods impact the performance of program.
- To Solve problems based upon different data structure & also write programs.
- Choose an appropriate data structure for a particular problem

Paper No. CS302-T Unix Operating System

- To have the ability to use a variety of common Unix commands and utilities.
- To have the ability to execute shell commands interactively and write shell scripts for at least two Unix Shells.
- Be familiar with basic Unix communications and networking commands.

Paper No. CS303-T PC Maintenance

- Introduced to a variety of operations and maintenance techniques, as well as safety and anti-virus procedures.
- Able to install and add operating system software and hardware, customize operating features, configure networks and provide basic PC support services.
- Personal Computer (PC) maintenance and repair, such as hardware and software installation, system optimization and basic troubleshooting

Paper No. CS304-T Programming in CPP

• Be able to understand the difference between object oriented programming and procedural oriented language and data types in C++.

- Be able to program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.
- At the end of the course students will able to simulate the problem in the subjects like Operating system, Computer networks and real world problems.

Paper No. CS305-T DBMS

- Understand, analyze and apply common SQL statements including DDL, DML and DCL statements to perform different operations.
- Design different views of tables for different users and to apply embedded and nested queries.
- Design and implement a database for a given problem according to well known design principles that balance data retrieval performance with data consistency

Paper No. CS306-T Statistical Method

- Organize, manage and present data.
- Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.
- Analyze statistical data using measures of central tendency, dispersion and location.
- Identify the type of statistical situation to which different distributions can be applied

Paper No. CS401-T Software Engineering

- Understand and demonstrate basic knowledge in software engineering.
- Identify requirements, analyze and prepare models.
- Plan, schedule and track the progress of the projects.
- Design & develop the software projects.
- Identify risks; manage the change to assure quality in software projects.
- Apply testing principles on software project and understand the maintenance concepts.

Paper No. CS402-T Fedora

- Student get understand graphical environment which include GNOME and KDE.
- Understand the features of Fedora with installation.

Paper No. CS403-T Basic of Networking

- To explain how communication works in computer networks and to understand the basic terminology of computer networks.
- To explain the role of protocols in networking and to analyze the services and features of the various layers in the protocol stack.
- To understand design issues in Network Security and to understand security threats, security services and mechanisms to counter them

Paper No. CS404-T Core Java

• Explore the Java programming language.

- Work with Primitive Types, Strings and Interactive Input/Output.
- Manipulate the Flow of Control, Design/Create/Use Classes and Methods, Manipulate Classes and Methods.
- Program with Inheritance

Paper No. CS405-T Advanced DBMS

- To understand the basic concepts regarding database, know about query processing and techniques involved in query optimization and understand the concepts of database transaction and related database facilities including concurrency control, backup and recovery.
- To understand the difference between DBMS and advanced DBMS and use of advanced database concepts and become proficient in creating database queries.

Paper No. CS406-T Web Fundamental

- Understand the functions of clients, servers, the HTTP protocol and HTML.
- Be able to write a well-formed HTML page.
- Be able to employ Cascaded Style Sheets.
- Be able to create simple web forms and process them with PHP.
- Understand elementary graph theory
- Perform a simple analysis of the structure of the web.•

Paper No. CS501-T Software Cost Estimation

- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- An ability to identify, formulate, and solve engineering problems.
- An ability to design a hardware and software system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability•

Paper No. CS502-T Basic of Android O.S

- Install and configure Android application development tools.
- Design and develop user Interfaces for the Android platform.
- Save state information across important operating system events.
- Apply Java programming concepts to Android application development.

Paper No. CS503-T Core JAVA - II

- Implement object oriented programming concepts.
- Use and create package and interfaces in a Java program.
- Use graphical user interface in Java programs
- Create applets.

• Connect with DataBase with JDBC

Paper No. CS504-T Basic of Computer Graphics

- Understand the basics of computer graphics, different graphics systems and applications of computer graphics.
- Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis.
- Use of geometric transformations on graphics objects and their application in composite form.
- Extract scene with different clipping methods and its transformation to graphics display device

Paper No. CS505-T Basic of ASP.Net

- Be able to design web applications using ASP.NET.
- Be able to use ASP.NET controls in web applications.
- Be able to debug and deploy ASP.NET web applications.
- Be able to create database driven ASP.NET web applications and web services

Paper No. CS506-T Advanced Networking

- Demonstrate Data Communications System and its components.
- Identify the different types of network devices and their functions within a network.
- Diagnose and resolve problems of a LAN and WAN.
- Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation

Paper No. CS601-T Software Quality & Testing

- Apply modern software testing processes in relation to software development and project management.
- Create test strategies and plans, design test cases, prioritize and execute them.
- Manage incidents and risks within a project.
- Contribute to efficient delivery of software solutions and implement improvements in the software development processes.
- To gain expertise in designing, implementation and development of computer based systems and IT processes

Paper No. CS602-T Android Application Development

- Understand both the basic and advanced concepts of Android Development.
- Explain and use key Android programming concepts.
- Build Basic level mobile applications with Java on Android.
- Deploy the application on Google Play

Paper No. CS603-T Theory of Computation

• Will apply knowledge of computing and mathematics appropriate to the discipline.

• will function effectively as a member of a team in order to accomplish a common goal

Paper No. CS604-T Advanced Computer Graphics

- To make the students familiar with techniques of clipping, three dimensional graphics and three dimensional transformations.
- The computer graphics course prepares students for activities involving in design, development and testing of modelling, rendering, shading and animation

Paper No. CS605-T Programming Language: C#

- Knowledge of the structure and model of the programming language C #.
- Use the programming language C # for various programming technologies.
- develop software in C # (application)

Paper No. CS606-T E-Commerce

- Understand the basic concepts and technologies used in the field of management information systems.
- Be aware of the ethical, social, and security issues of information systems
M.Sc CHEMISTRY

Program Outcome

- Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of chemistry
- To understand basic facts and concepts in Chemistry while retaining the exciting aspects of Chemistry so as to develop interest in the study of chemistry as discipline
- To develop problem solving skills. To develop skills in the proper handling of apparatus and chemicals
- To be exposed to the different processes used in industries and their applications.
- Synthesize complex information appropriate to the discipline
- Exhibit disciplined work habits as an individual.
- Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment, Society and other cultures outside the scientific community.
- To build a scientific temper and to learn the necessary skills to succeed in research or industrial field.

Program Specific Outcome

- To enable the students to learn about the extraction principles and mechanism of some addition reaction.
- The ability to explain chemical nomenclature, structure, reactivity, and function in their specific field of chemistry.
- To enable the students to know about the radio activity, acid and bases, the role of solvent in chemical reactions.
- To learn the different theories of reaction rates and factors affecting reaction rates
- To give an outline of applied organic chemistry and the applications of organic chemistry in various spheres of chemical sciences.
- To be able to define and resolve new problems in Chemistry and participate in the future development of Chemistry
- To impart students a broad outline of the methodology of science in general and Chemistry in particular

Course Outcome

Paper No. CHE-101 Analytical Chemistry

• This course will provide an insight into some of the fundamental concepts and Principles those are very essential in the study of spectroscopic methods and analysis of compounds using these techniques.

- To learn the concepts of different separation techniques, different types of chromatographic techniques and Gas, HPLC,
- To be able to define and resolve new problems on statistical treatment of analytical data

Paper No. CHE-102 Inorganic Chemistry

- This course gives the student idea about role of essential elements in biological system such as Fe, Cu, Zn, Mn etc.
- To understand the general characteristics, synthesis of transition metal complexes
- To impart students to learn group theory and symmetry of the elements.
- To understand the magnetic properties of complexes and to know how magnetic moments can be employed for the interpretation of their structure

Paper No. CHE-103 Organic Chemistry

- To predict the outcome and mechanism of some simple organic reactions, using a basic understanding of the relative reactivity of functional groups.
- To enable the students to get knowledge about nature of chemical bonding with examples.
- To learn reaction mechanism of aliphatic nucleophilic and electrophilic substitution reactions and their intermediates.
- To know stereochemistry and various possible conformations of organic compounds and how it affects the reaction outcome

Paper No. CHE-104 Physical Chemistry

- To enable the students to get a clear idea about chemical dynamics and classical thermodynamics.
- Enable the student to get understand the laws of thermodynamics, Adsorption, chemical equilibrium, Ionic equilibrium and biological reactions
- To know the basic concepts in classical thermodynamics and to learn the thermodynamic aspects of various processes and reactions.
- To enable the students to know concepts and theories in electrochemistry and surface chemistry.

Paper No. CHE-205 Spectroscopic Methods of Analysis

- The students will understand some fundamental aspects of spectral methods of analysis.
- To give the students a thorough knowledge of the different types of spectroscopic techniques such as UV, IR, NMR, Mass, C-13 and combined problems on the basis these data.
- The students will understand some fundamentals of microwave, vibrational and Raman spectroscopy.
- To learn about photoelectron spectroscopy and thermal methods of analysis.

Paper No. CHE-206 Inorganic Chemistry

- To provide an insight into the characteristics of different types of solutions and electrochemical phenomena.
- To learn electronic spectra and magnetic properties of metal complexes.

- To give the students a thorough knowledge of the different theories to explain the bonding in coordination compounds, metal carbonyls and metal notrosyls.
- To impart essential theoretical knowledge on spectroscopic term symbols.
- Students to learn about Dioxygen and Dinitrogen complexes.

Paper No. CHE-207 Organic Chemistry

- To make students capable of understanding and studying Aromatic electrophilic and Nucleophilic substitution
- To understand the role of various reaction intermediates like carbanion, carbocation, carbenes, radicals in reactions.
- To impart knowledge addition to Carbon- carbon bond and carbon heterobonds.
- To make students capable of understanding and studying different elimination reactions and rearrangements with mechanism

Paper No. CHE-208 Physical Chemistry

- To study phase diagrams and elementary idea of crystallography and structure of crystal.
- Students to learn about photochemistry and terms involved in photochemical reactions.
- To impart knowledge to the students about the quantum chemistry.
- To verify the some important principles in physical chemistry and to determine various physical properties

Lab Course Paper-209, 210, 211, 212

- To enable the students to know about principles and applications of Analytical techniques, Evaluation of Analytical data, Statistical texts and data, Theory of Quantitative Analysis, Gravimetric methods
- Enable the students to estimate the binary mixtures of metallic ions by volumetric and gravimetric methods
- Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.
- To develop skills required for the qualitative analysis of organic compounds, determination of physical constants.
- To impart the students a thorough knowledge of Systematic qualitative analysis of mixtures containing two acid and two basic radicals

Paper No. 313 Str. Elucidation by Spectral Methods

- To give the students a thorough knowledge of the different types of spectroscopic techniques such as UV, IR, NMR, Mass, C-13 and combined problems on the basis these data.
- To impart a thorough knowledge of the fundamentals of microwave, infra red, Raman, electronic and magnetic resonance spectroscopy.
- To learn the instrumentation and application of Mossbauer, ESR spectroscopic techniques

Paper No. CHE-314 Organic Synthesis

- To impart a thorough knowledge of the different Reagents and organomettalic compounds used in organic synthesis and their application in organic synthesis.
- This course will give insight into the processes involved in oxidation, reduction of reactions.
- This course gives student knowledge about the predict the products of different chemical reactions.

Paper No. CHE-315 Asymmetric Synthesis & Bio-organic Chemistry

- This course gives student knowledge about the synthesis of different enzymes and co enzymes and their analytical study.
- To understand the functions and applications of bioorganic compounds, supramolecular and biomimic chemistry to students.
- To have exposure to various emerging new areas of assymetric synthesis in organic chemistry

Paper No. CHE-316 Photo, free radical & Pericyclic Reaction

- To enable the students to learn about types of pericyclic reactions and its applications.
- To understand the importance of free radicals, carbanion and carbonations in chemistry.
- This course gives student knowledge about concept of photochemistry and different photochemical reactions and applications

Paper No. CHEO-417 Org. Synthesis Retrosynthetic approach

- Understanding the need of modern tools in chemical sciences such as C-C disconnections and reactions.
- Interpretation of collected information and use of information Ring synthesis with applications.
- This course gives detail knowledge to the student about organic synthesis and retire synthesis approach.

Paper No. CHEO-418 Advance Organic & Heterocyclic Chemistry

- To enable the students to understand and study Organic reaction mechanisms.
- 2. To acquaint knowledge on organic named reactions and their application in synthesis.
- 3. To enable the students to understand and study different types rearrangements with mechanism,
- To acquaint knowledge on four, five and six member heterocyclic compounds, its synthesis and reactions.

Paper No. CHEO-419 Chemistry of Natural Products

- This course discussed about the synthesis and properties of these Natural Products and their importance.
- This course also discusses details of synthesis, structure of some specific molecules such as terpenoids, alkaloids, steroids, flavones, anthocynanin and biogenesis

Paper No.CHEO-420 Medicinal Chemistry

- To enable the students to understand and study different types of medicinal drugs, its activity and their importance for human being.
- This course discussed about the synthesis and properties of medicinal drugs and their importance.
- To understand the effects and side effect of different types of drugs.
- To enable the students to know about pharmacokinetics and pharmacodyanics.

Lab Course Paper-209, 210, 211, 212

- To enable the students to know about principles and applications of Analytical techniques, Evaluation of Analytical data, Statistical texts and data, Theory of Quantitative Analysis, Gravimetric methods
- Enable the students to estimate the binary mixtures of metallic ions by volumetric and gravimetric methods
- Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.
- To develop skills required for the qualitative analysis of organic compounds, determination of physical constants.
- To impart the students a thorough knowledge of Systematic qualitative analysis of mixtures containing two acid and two basic radicals

Lab Course Paper -421,422,423,424

- Students will gain an understanding of methods of analysis related to chemical analysis such as detection of function groups, physical constants, monitoring reaction and preparation derivatives.
- The students will develop basic skills in the techniques of crystallization, distillation, TLC
- To learn the separation and purification of an organic mixture by chemical/solvent separation methods.
- Enable the students for synthesis of organic compounds, its characterization and determination of physical constants through project which creates research skills

B.A. PHYSICAL EDUCATION (OPTIONAL SUBJECT)

Program Specific Outcome

- Student will understand of the sub disciplines that make up the field of Physical Education/Kinesiology.
- Students knowledge about importance of regular exercise and healthy eating
- To know various types and methods of physical fitness
- Identify the concepts of sports management

Program Specific Outcome

- To know developing physical education trends, to incorporate a greater variety of activities besides the skills necessary to play.
- Typical team sports such as football, basketball
- To introduce students to activities like bowling, walking,
- To develop good activity habits that will continue into adulthood

Course Outcome

Paper No. 101 Philosophical, Sociological Foundation and History of Physical Education

- Philosophical needs to be taught by an active, engaging by physical educator who promotes lifelong learning to all students
- Socialization is important in the process of personality formation
- Socialization is the process by which children and adults learn from others
- Students will know ancient and modern history of physical education

Paper No. 102 Principles and Recent Development of Physical Education

- The principal of physical educational activity is controlled by the manipulation of frequency intensity, time and type of exercise
- To know principles of physical education through individuals and group of people

Paper No.201 Health Education and Recreation in Physical Education in Physical Education and Sports

- To know learning experiences designed to help students
- To include the physical games
- Role of recreation on the human development.

Paper No. 202 Officiating, Coaching and training methods in Physical Education & Sports

• To know Importance and principles of officiating,

- Relationship of official and coach with management, players and spectators, Measures of improving the standards of officiating and coaching
- To imrove training methods and skills in students

Paper No. 301 Ancient and Modern History of Physical Education and Sports

- To know Physical Education in ancient India
- To learn about Physical Education centers in India
- Government bodies and policies formation in India
- Scheme and awards related to Physical Education

Paper No.302 Sports Psychology and Management in Physical Education

- To learn mental skill for enhanced performance
- Management of Physical Education and sports
- The learn leadership, decision making and problem solving ability
- To know facilities and equipments

Paper No.303 Organization, Administration and Supervision in Physical Education, Youth Welfare and Youth Services

- To know objectives of organization and administration
- To learn concepts, objectives of youth welfare
- Objectives of intramural and extramural programs
- Organizing and conducting tournaments

Paper No.304 Anatomy, Physiology and Kinesiology of Physical Education

- To know cell, blood composition, circulation
- Properties and functions of human physiology
- To study body systems like respiratory system, muscular system etc
- To study fundamentals of kinesiology