

# **SreeNeelakanta Govt Sanskrit College, Pattambi**

## **ENGLISH AND HISTORY DUAL CORE PROGRAMME**

### **PART 1**

#### **ENGLISH CORE**

#### **BRIDGE COURSE SYLLABUS- 2022 -23**

### **AIM OF THE COURSE**

The bridge course aims to provide adequate time for the transition to BA English History Degree Programme and prepare themselves before the commencement of the course. This course will equip pupils to appreciate literature, think critically, and develop a humanistic perspective in their life. During this course, students will also be equipped with the knowledge and skills needed to gather, understand, evaluate and synthesise information from various diverse sources.

### **PROGRAMME OBJECTIVES OF THE COURSE**

To bridge the gap between school and collegiate education to meet the students' communicative requirements

To prepare the students for a classroom atmosphere in which English is the medium of instruction.

To help the students acquire the basic LSRW skills.

### **COURSE OUTCOME**

After the completion of the Bridge Course, students should be able to: -

Understands the Course requirements BA English History Dual Core Programme.

Differentiate between the diverse aspects of the language of literature.

Bridge the gap between English studied at the school level and the English language and literature that is taught at the university level

Overcome the initial hurdles of academic writing at the undergraduate level.

Understand major branches of literature, literary forms, literary genres and periods of English Literature

## **COURSE SYLLABUS**

### **Module 1 (8 hours)**

#### **Section A - Fundamentals (4 hours)**

Basic LSRW skills -Language Activities

Debates - Role-play - presentations

Discussions - Simulations

Brainstorming - Storytelling

Interviews - Story Completion

Reporting - Picture Narrating

Picture Describing - Find the Difference

#### **Section B -Language and critical thinking(4 hours)**

Critical Thinking as Building a Key Foundation for Language and Literacy Success

Literature and Creative imagination

### **Module 2 (7 hours)**

#### **Section A - Appreciating Literature (4 hours)**

Appreciating Fiction – Novel – short stories

Appreciating Poetry

Appreciating Drama

**Section B - Language, Literature and Society.(3 hours)**

Developing Inter-Personal Relationships and International Understanding through Language and Literature.

The Role of Language and Literature in Unifying Society through Culture.

Written Communication in the context of SocialMedia

Course Review– Assessment - Feedback

**PART 2**

**HISTORY CORE**

**BRIDGE COURSE SYLLABUS- 2022 -23**

**Outcome**

Knows about the emergence of social sciences

Understands how different branches of social sciences are interrelated

Understands about the emergence of history and its well-known definitions

Acquires the skill to differentiate abuses of history

understands the basic idea about research in history.

**Methodology**

Interactive sessions

Online sources

Debates

Lectures

Seminars

Group discussions

**Module 1: Evolution of social sciences ( 7 hours)**

The social sciences -emergence- philosophy of social sciences-branches -Anthropology -Economics- Political science- Psychology- Sociology -Geography -Demography -History

**Module 2: What is History? (8hours)**

Evolution of History as a discipline -definitions -functions -methodology -sources - abuses -objectivity- Historical Research -eminent historians.

**SREE NELAKANDA GOVT. SANSKRIT COLLEGE,  
PATTAMBI**

**DEPARTMENT OF ARABIC**

**BRIDGE COURSE IN ARABIC**

**(For new UG Batch in Arabic -2022-25)**

**Total Hours: 30**

**Total Modules : 06**

**MODULE 1 (6 Hrs.) Bridging the Shift- An orientation**

**Day 1 (3 Hrs.)**

1- Pre-requisite levels of Skills and Knowledge for +2 Pass outs & Assessment.

Activity based assessment of + 2 Level

A) Listening Arabic & comprehending skill-1Hr.

B) Presentation of simple ideas in Arabic- spoken - 1 Hr.

C) Reading the Simple Arabic text and comprehending it - 1 Hr.

**Day 2 ( 3 Hrs.)**

D) Written communication and conveying ideas - 1Hr.

E) Skill of innovation and self motivation- 1 Hr.

F) Concluding evaluation of peer teams and self assesment - 1 Hr.

**MODULE 2 ( 3 Hrs.) Towards changed Paradigm**

**Day 3**

Introduction to the Changed Paradigm of UG Curriculam @ University Level in Arabic by briefing Structure of Core, Complimentary, Common and open Courses in Arabic against Arabic curriculum @ +2 level as either Language 2 or as one of the optional – 2 Hrs.

Basic Awareness on future plans in the Discipline and other - 1 Hr.

### **MODULE 3 (6 Hrs.) MSA (Modern Standard Arabic)**

#### **Day 4**

Basic Arabic Structures in Contemporary Usages- 1 & 2 - 2 Hr.

Etymological derivatives and its Semantic connotations

( Activity Oriented Games) -1 Hr.

#### **Day 5**

Lexicographic Skills - Novel Method of finding an entry in Arabic- English Dictionary  
(Activity oriented practice) - 1 Hr.

Introducing Major English – Arabic , Arabic –English and Malayalam - Arabic Dictionaries  
& Online Dictionaries -1 Hr.

**Evaluative skill test ( Activity Based) - 1 Hr.**

### **MODULE 4 Functional Arabic ( 6 Hrs.)**

(A Hybrid approach of Core and Complimentary contents)

#### **Day 6**

Written and oral Communications in Arabic – Basic Components( 2 oral drills and 1 written )  
Oral drills- At Home- At College- At a Presentation in Social gathering – Written Skills –  
writing a letter to Principal and making a bio data - (3 Hrs.)

#### **Day 7**

#### **Translation skills- 3 Hrs.**

Test your Vocabulary in Arabic (Activity oriented) &

Find out the correct translations of some important terms

English-Arabic and Arabic English – 1Hr

Simple structural approach in Arabic – English and English- Arabic

Translation - 1 Hr.

Introducing online Arabic – English and English Arabic translation programs, Applications

**(Activity oriented Evaluative skill test using Reverso -context app, and translation of  
screen shots using google lens - 1 Hr.**

**MODULE 5 Literary Appreciation & Introduction to Socio-cultural history of Arabs  
( 6 hrs)**

**Day 8**

Pre- Islamic social scenario of Arabs and classical poetry –appreciating text of a sample ode-  
-1Hr.

Quran – A Marvel of linguistic and literal approach-appreciating samples - 1Hr

Prophetic Traditions- A socio-political reading of Fare well speech of Prophet Muhammed  
- 1 Hr.

**Day 9**

Style Analysis- Story telling style of Jubran - 1 Hr.

Evaluative skill test by watching a simple Arab humour Cinema & its appreciation  
- 1  
hr

Presenting a simple skit in Arabic ( A group activity) - 1 Hr.

**MODULE 6 Conclusive Evaluation**

**Day 10**

**Bridge Course in Arabic(Group Evaluations)- Reporting - 1 Hr.**

**Bridge Course Summative Test - 1 Hr.**

**Bridge Course-Peer Evaluation by Faculty & Certification ceremony - 1 Hr**

**POST-GRADUATE & RESEARCH DEPARTMENT OF BOTANY  
SNGS COLLEGE PATTAMBI**

**BRIDGE COURSE**

**19 September – 30 September 2022**

**PREFACE**

The B.Sc. Botany programme offered by the Department of Botany has Botany as Core and Chemistry and Zoology as Complementary subjects. The basic qualification for undertaking this programme is completion of Plus Two or equivalent course. As BSc Botany programme deals with fundamental as well as deeper areas of plant biology and more practical oriented, a basic knowledge and acquaintance with the instruments, equipment, techniques involved in this programme and skill for drawing, sectioning etc. are very important. In this way, the bridge course helps to connect the knowledge they have with the skill they required. This bridge course is a pragmatic, proactive and progressive step in view of helping the students. This will upgrade the basic knowledge and understanding of the students in the subject.

**OBJECTIVES**

1. To bridge the gap between the course content of syllabus of higher secondary and UG Botany.
2. To strengthen the knowledge of students in basics and fundamentals of Botany.
3. To strengthen the observation and practical skills of the student to gather knowledge.
4. To bring back the slow learners who have fallen behind and failed to utilize the best of their ability



## **SCHEME FOR IMPLEMENTATION**

Students enrolled for the first semester of BSc Botany shall complete the modules prescribed in the syllabus and undergo an evaluation process before the commencement of the regular courses of the programme. The Bridge course will be conducted in the Department of Botany, SNGS College through contact online/offline classes/laboratory training and by self-study by the students. Slow learners if any will be given additional guidance and training. In case of failure in the course, such students shall have to complete the course with the guidance of the teachers within the period of the first semester.

## **EVALUATION**

Examinations of the Bridge Course shall be conducted by the Department of Botany, and the pattern of the question papers will be decided by the College Council. There is no practical examination for the Bridge Course. Question paper setting, evaluation and declaration of results will be entrusted entirely internally to the Department. The College shall issue the “Certificate of Qualifying the Bridge Course” to the successful candidates.

## **PASSING STANDARDS AND AWARD OF GRADES**

For passing the Bridge Course a candidate must score a minimum of 40% marks in aggregate with a minimum of 40% in theory examination. “Grade” (from O to E) and CGPA will be awarded to the successful candidate as per the Credit Based Grading System.

## **FEES**

No fee will be charged from the students for this course.

**Core - 20Hrs; Complementary I (Chemistry) - 5Hrs; Complementary II (Zoology) -5Hrs**

**Total - 30 Hrs**

**SYLLABUS (Core): Total 20Hrs**

**Module 1-Course and Scope(3 hours)**

- A general introduction about the Course Structure (BSc Botany), Choice Based Credit and Semester System, Mark and Grade distribution, and Scheme of theory and practical examinations, Dissertations, Field Visits, Submissions.
- Higher Studies and Career prospectus in the field of Plant Sciences. Scope of research for knowledge and career.

**Module 2 – Basic Laboratory Practices (10 hours)**

- Classroom procedures, laboratory ethics and safety measures; concept of biosafety; social responsibility.
- Basic laboratory techniques: Microscopy – Principles and types of microscopes (dissection, compound microscopes); acquaintance with its usage. Micrometry; photomicrography (Practical session).
- Training on handling of minor equipment for practical: micropipette, pH meter, colourimeter, water bath, centrifuge. (practical session)
- Microtechnique - Hand sections, basic staining procedures and slide preparations; scientific drawing.
- Scope of field study: concept of botanical observation, plant collection and preservation. Dissection of flower

**Module 3– Bridging the Gap (7Hours)**

- Introduction to the basic structure of cell: Prokaryotic and Eukaryotic cells.
- Classification systems: purpose and applications (Eichler's system)
- Life cycle of plant- gametophytic and sporophytic generations
- General characters of algae, cyanobacteria, bacteria and viruses.
- Cell reproduction and cell cycle: brief account of mitosis and meiosis.
- Inter-disciplinary approaches in life science- scopes and opportunities. Bioinformatics and use of e-resources in plant science

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**SYLLABUS (Botany Complementary): Total 5 Hrs.**

- Interaction of plants and animals – Role of plants in ecological balance and sustainable industry, livestock management-
- Classroom procedures, laboratory ethics and safety measures; concept of biosafety; social responsibility.
- Microtechnique - Hand sections, basic staining procedures and slide preparations; scientific drawing.
- Scope of field study: concept of botanical observation, concept of co-evolution and co-resistance of plants and animals, plant collection and preservation.

## REFERENCES

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**മലയാളം ബ്രിഡ്ജ് കോഴ്സ് സിലബസ് രൂപരേഖ**

**ഒന്നാം വർഷ ബിരുദ വിദ്യാർത്ഥികളുടെ എൻടി ലെവൽ കോഴ്സ്  
മലയാളവിഭാഗം, ശ്രീ നീലകണ്ഠ ഗവ. സംസ്കൃത കോളേജ്, പട്ടാമ്പി.**

**30 മണിക്കൂർ  
4 ക്രെഡിറ്റ്**

**Common Course Outcomes**

1. To bridge the learning gap that occurred during the covid pandemic in the Plus Two period. (പ്ലസ് ടു പഠനകാലയളവിലുണ്ടായ കോവിഡ് മഹാമാരിയുടെ സമയത്ത് സംഭവിച്ച പഠന വിടവ് നികത്തുന്നു.)
2. To link higher secondary syllabi to the syllabi of under graduate courses at the entry level. ഹയർ സെക്കൻഡറി സിലബസുകളെ ബിരുദാനന്തര ബിരുദ കോഴ്സുകളുടെ സിലബസുമായി എൻടി ലെവലിൽ ബന്ധിപ്പിക്കുന്നു.)
3. To impart basic concepts of the particular discipline and educational objectives of UG Programme. നിശ്ചിത വിഷയമേഖലയുടെ അടിസ്ഥാനനാശയങ്ങളും സമീപനരീതിയും സംബന്ധിച്ച ധാരണയുണ്ടാകുകയും ഡിഗ്രി തല പ്രോഗ്രാമുകളുടെ വിദ്യാഭ്യാസ ഉദ്ദേശ്യങ്ങളെപ്പറ്റി അവബോധമുണ്ടാകുകയും ചെയ്യുന്നു )
4. To Develop aptitude and interest in specific field of study. ( നിശ്ചിതപഠനമേഖലയിൽ താല്പര്യവും അഭിഭാവവും വികസിക്കുന്നു.)

**Subject Specific Outcome.**

5. മലയാളസാഹിത്യത്തെയും ഭാവുകത്വചരിത്രത്തെപ്പറ്റിയുമുള്ള അടിസ്ഥാനധാരണകൾ ഉറയ്ക്കുന്നു.
6. കേരളസമൂഹരൂപീകരണം സംസ്കാരത്തിന്റെ ബഹുസ്വരത എന്നിവയെ സംബന്ധിച്ച അവബോധം
7. മലയാളഭാഷയിൽ കാര്യക്ഷമമായി രചനയും വിനിയോഗവും നടത്താനുള്ള ശേഷി നേടുന്നു.

**മോഡ്യൂൾ ഒന്ന്**

മലയാള സാഹിത്യവും ഭാവുകത്വചരിത്രവും (ക്രെഡിറ്റ് -1 സമയം 8 മണിക്കൂർ)

പ്ലസ് ടു കാല പഠനപുസ്തകങ്ങളെ കേന്ദ്രീകരിച്ച് മലയാളസാഹിത്യത്തിന്റെ വ്യത്യസ്തകാലങ്ങളിലുള്ള സാഹിത്യവ്യവഹാരങ്ങളുടെ സ്വഭാവം, പ്രധാനദിശാമാറ്റങ്ങൾ, വ്യത്യസ്ത ജനസ്പുക്കളുടെ

സംക്ഷിപ്തസാഹിത്യചരിത്രം എന്നിവ സാമാന്യമായി അപഗ്രഥിക്കുന്നു. കവിത, കഥാസാഹിത്യം എന്നിവയിൽ പ്രധാന ഊന്നൽ നൽകണം. ചർച്ചകൾ, അവതരണങ്ങൾ, അസ്സെസ്സ്മെന്റുകൾ എന്നീ പഠനപ്രവർത്തനങ്ങൾക്കാണ് പ്രാമുഖ്യം നൽകേണ്ടത്.

മോഡ്യൂൾ രണ്ട് (ക്രെഡിറ്റ് -1 സമയം 8 മണിക്കൂർ)

സമകാലികസാഹിത്യം സാമാന്യപരിചയം.

വ്യത്യസ്ത സാഹിത്യവ്യവഹാരങ്ങൾ, വ്യത്യസ്തസാഹിത്യജനസ്പുക്കൾ. ഇരുപത്തിയൊന്നാം നൂറ്റാണ്ടിലെ പ്രധാന എഴുത്തുകാർ, കൃതികൾ, ആനുകാലികങ്ങളിലെ സാഹിത്യം, സൈബർ മാധ്യമങ്ങളിലെ സാഹിത്യം , മൾട്ടി മീഡിയ രൂപങ്ങൾ എന്നിവയിലൂടെ കടന്നുപോകണം.

സമകാലികസാഹിത്യവായനയിൽ താത്പര്യവും ശീലവും വളർത്തിയെടുക്കുന്ന ചർച്ചകളാണ് ഉണ്ടാവേണ്ടത്. പരിചയപ്പെടുത്തുന്ന ക്ലാസുകൾക്കൊപ്പം വായന, ആസ്വാദനം, വിശകലനം, വിമർശനം തുടങ്ങിയ കാര്യങ്ങളിലേക്ക് പ്രചോദിപ്പിക്കുന്ന വിവിധ പ്രവർത്തനങ്ങളായി ഈ മോഡ്യൂളിനെ ക്രമപ്പെടുത്താം.

മോഡ്യൂൾ മൂന്ന് (ക്രെഡിറ്റ് -1 സമയം 7 മണിക്കൂർ)

കേരളപഠനം - സമൂഹരൂപീകരണവും സംസ്കാരപരിണാമവും.

കേരളീയസമൂഹത്തിന്റെയും സംസ്കാരത്തിന്റെയും വികാസപരിണാമങ്ങളെ സാമാന്യമായി വിശകലനം ചെയ്ത് സമകാലിക കേരളീയതയെ മനസ്സിലാക്കുന്നു. മധ്യകാല നാടുവാഴിത്തം, ജാതിജന്മിത്തഘടന, കൊളോണിയൽ അധിനിവേശം, അധിനിവേശ ആധുനികത, കേരളത്തിന്റെ ആധുനകീകരണം, ജനാധിപത്യവത്കരണം, ബഹുജനസംസ്കാരത്തിന്റെ വളർച്ചയും സ്വാധീനവും എന്നീ ഘട്ടങ്ങളെ തിരിച്ചറിയുന്നു. സംസ്കാരം, ചരിത്രരചന, സാംസ്കാരിക ദേശീയത, പ്രബലസംസ്കാരം, സാംസ്കാരികാധിനിവേശം, പ്രാന്തവത്കരണം, നവസംസ്കാരപഠനം തുടങ്ങി സംസ്കാരപഠനവുമായി ബന്ധപ്പെട്ട സങ്കല്പനങ്ങളെക്കൂടി പരിചയപ്പെടണം.

സംസ്കാരത്തിന്റെ ബഹുസ്വരത, ജനാധിപത്യപരമായ കാഴ്ചപ്പാട് എന്നിവയിൽ ഊന്നണം.

മോഡ്യൂൾ നാല് (ക്രെഡിറ്റ് -1 സമയം 7 മണിക്കൂർ)

രചനയും വിനിമയവും.

തെറ്റുകൂടാതെ മലയാളഭാഷ ഉപയോഗിക്കാനുള്ള ശേഷി ആർജ്ജിക്കുന്നതിലാണ് ഊന്നൽ നൽകേണ്ടത്. പരിശീലനത്തിന് കൂടുതൽ പ്രാധാന്യം നൽകേണ്ട ഈ മോഡ്യൂളിൽ അക്ഷരമാല, പദബോധം, മലയാളത്തിലെ വാക്യരചനാരീതികൾ, വാക്യസങ്കേതങ്ങൾ, ചിഹ്നനം എന്നിവയെ സംബന്ധിച്ച അറിവും അക്കാദമികമവും പൊതുവിലുള്ളതുമായ വ്യത്യസ്ത രചനകളിലും വിനിമയങ്ങളിലും പ്രായോഗികജ്ഞാനവും

നേടണം . ഏതു രചനയിലും ശ്രദ്ധിക്കേണ്ട വാക്യരചനാതത്വങ്ങളെ ക്ലാസുകളിലൂടെ പരിചയപ്പെടുത്തണം.

**PG Department of Commerce & Management Studies**  
**Sree Neelakanta Government Sanskrit College Pattambi**  
(Accredited by NAAC with A+)

**Entry level Bridge Course for Commerce (B.Com & BBA students)**

*'To bridge the Academic Gap is  
Similar to bridge the Life itself'*



**Business Education – Contemporary scenario :**



**C**ompetency  
**O**riented  
**M**eans &  
**M**ethods of  
**E**ducation for  
**R**adically  
**C**hanging  
**E**nvironment

**Introduction :**

This course is intended for those students who got admission in B.Com and BBA Programmes in this college. The general objective of this course is to bridge the gap between the limited level of knowledge and experience they attained in the Pre university platform and the level of knowledge and experience to be attained in the Higher Education (UG) platform. Since the field of Commerce and Management is highly dynamic and radically updating its paradigms in accordance with the advancement in Information Technology, to survive in the field of Commerce, industry and profession competency-oriented means and methods of education and methodology is highly necessary. This is a preparative course with specific academic



curriculum, offered to enhance the knowledge of the students by means of preparing for the intellectual challenges of commerce subjects and knowing basic information about the core subjects. The stream, structure, nature, syllabus content, objectives and outcomes of B.Com and BBA Programmes are almost similar, hence we designed only a single bridge course for both the programmes. This course will help both the B.Com and BBA students to fill the gap to a great extent from the elementary knowledge to have a smooth entry into the field of UG programme in the commerce discipline. This course is designed for 30 hours of duration and certificates will be provided after successful completion.

### Objective :

The bridge course aims to act as a buffer for the new entrants with the objective to provide adequate time for the transition to the hardcore Under Graduate courses. This course helps them a breather, to prepare themselves before the onset of courses for the UG program. During this interactive and other process oriented 30 hours, the students will be equipped with the knowledge, basic skills, confidence and competency needed to take on bigger challenges in the future in the field of business education and its practical field.

### Course outcomes :

1. Attainment of a fundamental knowledge and conceptual base of commerce and its related aspects.
2. Attainment of self-confidence and competency to approach various commerce subjects in higher education.
3. Attainment of self-encouragement and motivation to go through the higher-level subjects in the commerce education.
4. Attainment of conceptual and fundamental base and awareness on various components of commerce like Accounting, Finance, Taxation, Auditing and Modern IT related emerging updations in the field of commerce.
5. Equipping the students to face the modern-day challenges in commerce and business scenario.

### Course details :

Course Title	: Entry Level Bridge Course for Commerce
Course duration	: 30 hours
Target Group	: First Semester B.Com and BBA students of this college.
Course applicability	: Course should be completed before starting the normal University Programme content without affecting the schedule of university academic calendar.

Course content	: Elementary parts in the field of Commerce discipline, minimum level familiarisation of advanced knowledges covered in UG program, familiarisation of branches of Accounting and Taxation and its related practical aspects. Introduction of contemporary economic scenario where the practicability requires.
Mode of Course	: Offline but for some inevitable circumstances online mode can be applied.
Methodology applied	: Interactive classes, Pre knowledge level evaluation, Continuous evaluation and progress generation, Selected invited talks, More practical and process oriented classes, Simple assignments and presentation, Case study and real life context analysis, Simple evaluation process, Usage of digital platforms, Entrepreneurial interaction, Field visit, Referencing and library familiarisation, Group dynamics, Feedback sessions etc.
Method of evaluation	: Simple and innovative evaluation methods and techniques to make the evaluation an inspiration and self learning to students by providing them a chance to contribute themselves.
Faculty	: Faculties of the department of commerce, faculties from other departments related to the course content, Experts and faculties from outside.
Certification	: On successful completion certification will be provided to the students.
Scheme and syllabus	: Consisting of five modules arranged scientifically and systematically to gain the specific outcomes and level of knowledge to a smooth entry by filling the gap specified.
Course Coordinator/s	: First Semester B.Com and BBA Class tutors
Course fee	: Course is absolutely free
Modality of implementation	: Shall be discussed and finalised in the department and implementation plan and strategy will be fixed well in advance before implementation.

**Syllabus of the Course :****PG Department of Commerce & Management Studies  
SNGS College - Pattambi****ENTRY LEVEL BRIDGE COURSE FOR COMMERCE  
(For B.Com & BBA Students)****30 Hours****2 Credits**

Chapterisation	Content	Specific Objectives	Contact Hrs
<b>Module I :</b>	Commerce – Introductory knowledge – familiarisation and conceptualisation of terminologies – Importance – Business – Industry – Trade – components in commerce – Forms of business organisations – Commerce & Information Technology – Recent business environment – Emerging Trends in commerce. <i>(Methodology given in the course details can be applied)</i>	<i>To gain a basic idea about the fundamental and related aspects of Commerce and to introduce the emerging trends in the field of commerce.</i>	5 hours
<b>Module II :</b>	Basics of Accounting – Book Keeping - Accounting - Importance – Basic concepts and principles – Basic terminologies – Types of Accounting – Finalisation – Concept of Financial Statements and other published accounts. Branches of accounting - Cost accounting- Management accounting – Information Technology and Accounting – Introduction Computerised Accounting – Introduction to IFRS (just concept) <i>(Methodology given in the course details can be applied)</i>	<i>To acquire the basic and fundamental idea and conceptualisation on accounting and its branches and its contemporary advancements with IT updation.</i>	8 hours
<b>Module III :</b>	Marketing- Basic concepts and terminological familiarisation - Consumer – Consumer Protection- Consumer rights – Recent trends in sales and marketing – E-Commerce and online business <i>(Methodology given in the course details can be applied)</i>	<i>To acquire the Basic idea and concept on marketing and its recent trends. To familiarise the basic technicalities of online business.</i>	4 hours
<b>Module IV :</b>	Finance – Concept – Objectives- Basic concepts in investment management - stock exchanges – working of stock exchanges - Trends in Financial Services Conventional banking Vs Modern banking – Trends in the field of Insurance – introduction to relevant regulations <i>(Methodology given in the course details can be applied)</i>	<i>To acquire the fundamental and conceptual knowledge in the field of Finance and investment, recent trends in the field of Banking and Insurance etc.</i>	5 hours
<b>Module V :</b>	Income Tax and Auditing - Introduction – Terminological familiarisation of Income Tax and Auditing – conceptualisation – Practicability – Tax environment of business – Trends in Direct Tax and GST – Practical scenario and application of Tax. <i>(Methodology given in the course details can be applied)</i>	<i>To acquire a fundamental knowledge and familiarisation on Taxation and Auditing and its practical importance in the contemporary real-life situation</i>	8 hours

*NB : Apart from the methodologies specified above the concerned teachers can use any appropriate method of discourse which they find relevant.*

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## **Post Graduate Department of Economics**

**Sree Neelakanta Government Sanskrit College**

(Accredited by NAAC with A+ Grade)

Pattambi-679306, Palakkad District, Kerala

### **Bridge Course on Basic Economics & Statistics Syllabus**

#### **Area-1: Microeconomics:**

Methodology of economics – Positive and normative economics – Demand and supply concepts – Equilibrium – Elasticity of demand and its implications – Major approaches to consumer behaviour – Production function – Basic cost concepts – Features and relevance of different market structures.

(8 Hours)

#### **Area-2: Macroeconomics:**

National income concepts and measurement – Circular flow of income and expenditure – Major concepts of classical and Keynesian economics – Inflation, deflation and business cycles – Money supply and its measures – Fiscal and monetary policies.

(7 Hours)

#### **Area-3: Indian Economy:**

Basic features of Indian economy – The mixed economy framework – Significance of the primary, secondary and tertiary sectors – Economic planning – Economic Reforms and its impact on different spheres of the economy – An overview of the fiscal and financial system – Present state of the economy.

(7 Hours)

#### **Area-4: Basic Statistics:**

Measures of central tendency – Measures of dispersion – Graphical representation of data – Index numbers – Correlation and regression.

(8 Hours)

## **BRIDGE COURSE FOR B.Sc. PHYSICS 2022-23**

### **Common Course Outcomes**

1. To bridge the learning gap that occurred during the covid pandemic in the Plus Two period.
2. To link higher secondary syllabi to the syllabi of under graduate courses at the entry level.
3. To impart basic concepts of the particular discipline and educational objectives of UG Programme.
4. To Develop aptitude and interest in specific field of study.

### **Subject Specific Outcome**

5. Acquire some fundamental concepts in Physics
6. Learn few fundamental mathematical tools needed for Physics
7. Understand some basic concepts in chemistry

## **SYLLABUS**

### **PHYSICS (15 hours)**

#### **Unit 1: Co-ordinate Systems:**

Rectangular co-ordinate system, Polar Coordinate system, Spherical polar co-ordinate system and Cylindrical Coordinate system (4 hours)

#### **Unit 2: Mechanical Properties of Solids:**

Elastic behaviour of solids, Stress and strain, Hooke's law, Stress-strain curve, Elastic moduli. (2 hours)

#### **Unit 3:- Oscillations and Waves:-**

Oscillation: --- Periodic motion: period, frequency and displacement as a function of time. Simple harmonic motion, equation of SHM, phase. Examples:- Simple pendulum and the time period of oscillations.

Waves: Longitudinal and transverse wave, wave speed, displacement relation for progressive wave, Amplitude, phase, period, frequency and angular frequency, propagation constant or the wave number. Principle of superposition of waves.

(5hours)

#### **UNIT 4:-Introduction to physics Practical :-**

1. To find the volume of a given body using vernier callipers and calculate the relative and percentage error in measurements.
2. To find the volume of a given body using screw gauge and calculate the relative and percentage error in measurements.

(4 hours)

## MATHEMATICS

### Unit 1: Calculus:-

Continuity and differentiability, Applications of derivatives, Integrals, Applications of integrals (6 hours)

### Unit 2: Algebra:-

Matrix and determinants. (2 hours)

### Unit 3:- Vectors:-

Vectors and scalars, Addition of vectors, Dot product, Cross product. (2 hours)

## CHEMISTRY

**Unit 1.** (3.5 hours). Atomic structure – History – Different models

**Unit 2.** (3 hours). Atomic orbitals –.Nomenclature of the orbitals - Graphical representations of orbitals - The phase of an orbital - Putting electrons in orbitals - Molecular orbitals Hybridization of atomic orbitals.

**Unit 3.** (3.5 hours). Mole Concept: Atomic Mass, Average Atomic Mass, Molecular Mass, Formula Mass. Mole concept, Composition, Empirical Formula for Molecular Formula, Reactions in Solutions, Mass per cent or weight per cent (w/w %), Mole fraction, Molarity, Molality, Equivalent and redox Concept.

**Bridge course in Zoology**  
**‘Gefyra’; a bridge to the world of Zoology**

**Total Hours: 25Hrs**

**Common Course Outcomes**

- To bridge the learning gap that occurred during the Covid -19 pandemic in the Plus Two period.
- To link higher secondary syllabi to the syllabi of under graduate courses at the entry level.
- To impart basic concepts of the particular discipline and educational objectives of UG Programme.
- To develop aptitude and interest in specific field of study.

**Subject Specific Outcome**

- To provide basic concepts about the subject and orient student to degree courses offered.
- To understand the concepts of classification of animals, Biodiversity and conservation.
- To develop a positive attitude towards the conservation of biodiversity and to inculcate the spirit of being a voluntary member in conservation efforts.
- To develop skills in Biology:- experimental, observational, manipulative, decision making and investigatory skills in the learners

**Bridge course in Zoology (Core)**

**Total Hours: 20Hrs**

**Module-1: Concepts in Zoology(5 Hrs)**

Basics in taxonomy, systematics, classification and nomenclature, Need of classification.

Identification of soil and aquatic organisms

To develop skills in identification and documentation of Local biodiversity

Museum visit

**Module -2: Biodiversity and Conservation(5 Hrs)**



Biodiversity and Causes of Biodiversity loss

Biodiversity Conservation and Environmental issues (Activity based)

Discussions on Human animal conflict

**Module -3: Skills, Tools and Techniques in Zoology (10 Hrs)**

Microscopes –Different types, use and maintenance of microscopes

Histochemistry and staining techniques

Applied Zoology: - Introduction to Entomology, Apiculture and Sericulture

Introducing the world of biological literature; training on sifting information from online resources. Ethics and plagiarism

Allied fields and its scope.

Field visit to nearby Institutions

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**Bridge course in Complementary course (Zoology)**

**Total Hours: 5**

**Module-1: Concepts in Zoology(2 Hrs)**

Basics in Zoology (Terminology, concepts)

To develop skills in identification and documentation

Museum visit

**Module -2: Biodiversity and Conservation (1 Hr)**

Biodiversity Conservation and Environmental issues

**Module -3: Skills and Techniques in Zoology(2 Hrs)**

Microscopy and staining techniques

Applied Zoology: -Apiculture and Sericulture

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