



SARASWATHI COLLEGE OF ARTS AND SCIENCE

VILAPPIL, THIRUVANANTHAPURAM



**FOUR YEAR UNDERGRADUATE PROGRAM
E-PROSPECTUS
2024**

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This prospectus is published by Saraswathi College of Arts & Science.

Publisher: Saraswathi College of Arts & Science
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Acknowledgements: University of Kerala
(Prospectus 2024-2025 & FYUGP Curriculum Framework, UoK)

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ABOUT

SARASWATHI COLLEGE OF ARTS & SCIENCE

Saraswathi College of Arts and Science, established in 2017 in Vilappilsala, is a Self-financing institution managed by Ananthapuri Educational Society and affiliated with the University of Kerala. Set in the idyllic village of Vilappil, the college is recognized for its academic rigor and discipline. It features state-of-the-art facilities, including modern labs and a comprehensive library, supported by a committed faculty. As a sister concern of the esteemed Saraswathi Vidyalaya, the college is on a steadfast journey to becoming the state's leading educational establishment.

Saraswathi College of Arts and Science, nestled in the tranquil countryside of Vilappil, Trivandrum, is renowned for its pristine classrooms and contemporary amenities that create a conducive learning environment. The college emphasizes comprehensive development, offering a plethora of co-curricular and extracurricular pursuits through its diverse clubs. The teaching corps, comprising many PhD holders and UGC NET qualified educators, imparts a rich academic experience rooted in their profound subject matter expertise.

The institution prides itself on upholding a hygienic, secure, and welcoming campus atmosphere by rigorously implementing anti-ragging and anti-narcotics policies. This commitment to fostering a nurturing environment is mirrored in the consistently impressive pass rates of our final-year students. Proactive departmental grievance redressal protocols and academic mentorship programs further exemplify our dedication to supporting students throughout their academic endeavors.

Efficient and attentive office administration forms the backbone of Saraswathi College, ensuring seamless day-to-day operations and ready assistance. Collectively, these elements underscore the college's esteemed reputation and its dedication to cultivating individuals who are well-equipped to thrive in their future professional landscapes.

Welcome Messages

Management & Administration

Dr G Rajamohan

Chairman
Saraswathi Group of Institutions



As the Chairman of Saraswathi College of Arts and Science, I am thrilled to welcome our students to the pioneering Four Year Undergraduate Program. This new curriculum marks a significant stride in higher education, aligning with Kerala University's progressive vision. Our college is at the forefront of this educational evolution, embracing the changes that promise to enhance academic depth and practical expertise. We are committed to equipping our students with a robust foundation for their future endeavors. Welcome to a journey of discovery, innovation, and excellence.

Dr Devi Mohan

Vice-chairperson
Saraswathi Group of Institutions



Welcoming the introduction of our Four Year Undergraduate Program, aligned with the University of Kerala's educational framework, we are excited to offer a diverse curriculum across seven major disciplines and various minor streams. This expansion reflects our commitment to providing an education that equips students for both life and career, showcasing the adaptability and excellence of our institution. We invite you to join us in this new chapter of academic exploration and achievement.

Prof N Jayakumar

Academic Director
Saraswathi College of Arts & Science



With over four decades of experience in academia, I have witnessed the evolution of our higher education system. The shift towards Outcome-Based Education (OBE) through the Four-Year Undergraduate Program (FYUGP) is indeed a promising development. This approach offers students the flexibility to delve into multiple subjects and acquire skills by the end of their third year. Completing the fourth year can further lead to an Honours degree. At Saraswathi College, we are fully equipped to meet the demands of FYUGP, ensuring its resounding success. Our dedicated faculty and administration are committed to facilitating a smooth transition for students into this innovative educational framework.

Dr G Gopkumar

Principal
Saraswathi College of Arts & Science



As the Principal of Saraswathi College of Arts and Science, I am proud to share that we are among the first in Kerala to publish a prospectus dedicated to the Four-Year Undergraduate Program (FYUGP). This reflects our unwavering dedication to informing our stakeholders about this significant educational shift. Our readiness to embrace this new curriculum demonstrates our commitment to the academic growth of our students. We welcome parents and students to join us, confident in our institution's ability to successfully navigate this change.

Four Year Undergraduate Programme

The University of Kerala is set to revitalize the educational landscape with the introduction of the Four-Year Undergraduate Programme (FYUGP) from the 2024-2025 academic year. This initiative, aligned with the frameworks of the UGC and the Kerala State Higher Education Council, integrates Outcome-Based Education (OBE) into the curriculum. This transformative approach brings several key changes that stakeholders must be cognizant of.

A notable innovation is the multiple exit options, allowing students to obtain a degree at the end of three years or opt for an Honours degree with an additional two years of study. The Honours degree within the FYUGP framework introduces exciting opportunities for students, such as research initiatives and internships. These additions are designed to enhance the academic journey, allowing students to deepen their studies or refine the skills they have developed throughout their coursework. The curriculum empowers students to select courses each semester, crafting a personalized educational pathway. This student-centric model shifts away from rote learning of advanced theories at the onset, instead progressively builds knowledge from foundational to capstone courses. The process choosing courses at the beginning of each semester empowers students to design their unique educational pathways, ensuring that their learning journey is self-directed and not constrained by a rigid curriculum.

In stark contrast to the traditional education system, which often focuses on the input of teachers and assumes that learning has occurred, the FYUGP fosters the idea of “what students are capable of doing.” It sets clear objectives and predetermined outcomes, requiring students to actively engage in their education. This approach demands more than routine tasks; it requires students to demonstrate their abilities through challenging assignments and higher-order thinking, thereby ensuring a more comprehensive and practical educational experience.

Beneficial Features of FYUGP

The Four-Year Undergraduate Program (FYUGP) offers a multitude of benefits, including:

- **Enhanced learner autonomy**, allowing students to tailor their UNIQUE educational journey to their interests and career goals.
- A practical approach that **narrows the gap between theoretical knowledge and applicable skills**.
- Promotion of **interdisciplinary and multidisciplinary learning**, encouraging a broader understanding and versatility.
- Adoption of **hybrid learning modes**, combining traditional and digital education methods for a flexible learning experience.
- **Flexibility** to change majors at the end of the second semester, subject to seat availability and previous coursework in the chosen discipline.
- Access to **online question banks**, facilitating continuous learning and self-assessment.
- **Customized Individual Learning Plans (ILPs)** and assessment accommodations for differently-abled students, ensuring inclusivity.
- **Streamlined assessment methods**, including reduced written examination durations and diverse testing formats like open book exams.
- **Pathways to further education:** students who complete the honours degree can pursue a one-year postgraduate degree, and those with an honours degree with research may advance directly to PhD programs.

Course Structure of FYUGP

The FYUGP's curriculum is structured around three core elements: **Major Disciplines**, **Minor Disciplines**, and **General Foundation Courses**. This design allows students to tailor their academic pursuits according to their individual interests and career aspirations. Incorporating these three types of disciplines, the FYUGP offers three distinct pathways for students.

- **Three-Year UG Degree:** Students can opt to conclude their studies after three years in the four-year degree program. Upon fulfilling the requisite credit range of 133 to 150, they will receive a UG Degree in their chosen Major discipline.
- **Four-Year UG Degree with Honours:** For those completing the entire four-year program and accumulating between 177 to 200 credits, an Honours UG Degree in the Major discipline is conferred. Students not engaged in a project have the option to complete an additional 12 credits through 3 courses or a 15-week internship.
- **Four-Year UG Degree (Honours with Research):** This pathway caters to students with a keen interest in research. A student who successfully completes the Honours with Research degree will be eligible for research studies and NET examination without a master's degree (subject to UGC criteria). By achieving at least 177 credits, including 12 from a research project or dissertation, students will earn an Honours UG Degree with a research designation, paving the way for a career in research.

Programme Pathways

Students who have joined any programme under these regulations shall have the option to choose the following pathways for their UG degree and Honours programme.

Degree with Single Major

In the FYUGP, students select a major at admission, which becomes their primary focus. They have the option to switch their majors after the completion of second semester. For a three-year undergraduate degree in a specific major, a minimum of 68 credits from that major is required out of 133 total credits. In the four-year program, at least 88 major credits are needed out of 177 to qualify for an Honours degree.

Example

In the FYUGP, upon successful completion of the degree requirements, students are awarded a degree that reflects their major discipline. For instance, if a student is admitted into the Geology discipline and completes the three-year undergraduate program by accruing 133 credits, with at least 68 of those credits in Geology, they will be conferred a Bachelor of Science degree in Geology, denoted as *BSc Geology Major*. This designation signifies the student's focused study and expertise in the field of Geology.

Degree Major with Minor(s)

For those not pursuing a Double Major, the three-year degree requires 24 Minor credits, while the four-year Honours or Honours with Research degree mandates 36 Minor credits. The Minor Component of the FYUGP enriches students' education by offering breadth in disciplines beyond their Major. Students can choose Minor courses from a variety of subjects provided by their institution.

Under the "Major with Multiple Disciplines" pathway, students must accumulate 12 credits in two separate disciplines apart from their Major. Conversely, the "Major with Minor" pathway necessitates a minimum of 24 Minor credits within the first three semesters for a UG degree. For a UG Honours degree, at least 36 Minor credits are needed.

Example: In the **Major with Single Minor** pathway, a student majoring in Geology and accruing 24 credits in Physics as a Minor over the first three semesters will, upon completion of the third year, receive a degree titled *BSc Geology Major with Physics Minor*.

In the **Major with Multiple Disciplines** pathway, a student majoring in Geology who has also earned 12 credits each in Physics and English as Minors within the same timeframe will be awarded "BSc Geology Major with Physics and English" at the end of the third year.

Degree Double Major

A student who secures a minimum of 50% credits from the first major will be awarded a second major in another discipline if they can secure 40% of credit from that discipline. This applies to both the 3-year and 4-year undergraduate degree programs. Additionally, the student can only take general foundation courses (excluding Ability Enhancement Courses) from the two major disciplines.

Example: In a **Double Major program**, a student enrolling in the English discipline also selects Psychology as their second major. The student must earn 50% of credits from English courses and 40% of credits from Psychology courses. Upon meeting these requirements, the student will be awarded a Double Major degree in English and Psychology.

Credit Requirement for Single Major and Major with Minor(s)

| Sl. No. | Categorisation of Courses for all Programmes | Minimum Number of Credit Required | |
|---------|--|-----------------------------------|------------|
| | | 3-year UG | 4-year UG |
| 1 | Major | 68 | 88 |
| 2 | Minor | 24 | 24+12* |
| 3 | Multi-disciplinary Courses (MDC) | 9 | 9 |
| 4 | Skill Enhancement Courses (SEC) | 9 | 9 |
| 5 | Ability Enhancement Course (AEC) | 12 | 12 |
| 6 | Value Addition Courses Common for all UG (VAC) | 9 | 9 |
| 7 | Summer Internship, field based learning etc. | 2 | 2 |
| 8 | Research Project/ Dissertation/Courses | | 12** |
| | Total Credits | 133 | 177 |

Additional Components in the Structure

Summer Internship / Apprenticeship: This program facilitates students' transition into real work environments. During the summer term, all students participate in internships or apprenticeships. These experiences occur in firms, industries, organizations, or research labs. Students collaborate with faculty and researchers from their institution or other higher education institutions (HEIs).

Fast Track Mode: Students have the option to complete their degree or Honors program in a shorter duration using the fast track mode. In this mode, students aim to finish the program in N-1 semesters (where N represents the total number of semesters in the regular program). To achieve this, students acquire additional credits each semester, subject to a maximum of 28 credits per semester. The specific credit requirements may vary between 21 to 24 credits per semester, depending on the home HEI. However, the maximum total credits for a six-semester degree are limited to 150 credits, and for an eight-semester Honors Degree, the limit is 200 credits.

Academic Structure and Requirements

- 1 Academic year = 200 working days (200 days/2 semesters)
- 1 Semester = 90 working days + 10 days for co-curricular/extra-curricular activities (100 days) +15 days for exams including Internal examinations.
- 1 day = 6 teaching/tutorial hours
- Credits to be acquired in a 3 year degree course: 133 – 150 (28 credits max/Semester, of which 21-24 must be from the Home Institution)
- Credits to be acquired in a 4 year degree course: 177 – 200
- 75 % attendance shall be acquired through prescribed classroom activities in physical, online, or blended modes, including any compensatory activities as specified by the faculty of that particular course.

Admission Process and Essential Steps

- **Online Application:** Students can apply through the university website, selecting their desired disciplines from Institutions of their choice. Course offerings for specific colleges will be listed, allowing students to explore their options. ([Click here to understand the Online Registration Process](#))
- **Academic Bank of Credits & APAAR ID:** Upon enrolment, students must register in the Academic Bank of Credits (provided by the UGC). After registration, each student receives a unique APAAR ID generated by the Ministry of Education, India.
- **Publication of Allotments:** The university publishes allotment details on its website.
- **Report at College:** At the college level, students complete the necessary admission formalities. This includes document verification, fee payment, and other administrative processes.
- **Commencement of Classes:** Classes begin in July, marking the start of the academic year.
- **Faculty Interaction:** Students shall be allowed to visit and interact with respective faculty members such as Department Program coordinator, Faculty Advisor or Course Faculty coordinator to gather more information about the courses and the availability of seats.
- **Course Registration:** Students select courses or papers for the first semester. This step ensures a tailored academic experience based on individual interests and goals.

Course Selection & Registration

Course registration marks the final step of the admission process and is pivotal to a student's academic journey, granting them the autonomy to tailor their learning path according to their interests and skills.

Step 1: Understanding the course structure outlined on [page 9](#) is imperative for making informed decisions.

Step 2: Upon admission to any Higher Education Institution (HEI) under the University of Kerala, students must determine their desired course pathway, whether it be a Double Major, Single Major, or Major with Minor(s). Subsequently, they should select their courses based on the Major and Minor credit distribution provided on [pages 9 and 10](#).

Step 3: In the first semester, students are required to choose one discipline-specific core course from their Major Discipline and select their Minor course(s) from other disciplines.

Step 4: To browse the Major and Minor courses available at SCAS, students can refer to [pages 12-17](#).

Step 5: Additionally, students must choose two AEC courses from AEC 1 and AEC 2, listed on [page 14](#), along with an MDC Course from any department other than their Major discipline (unless the student is doing double Major), as detailed on [page 15](#). [[SEC \(P.no 17\)](#)] [[VAC \(P.no 16\)](#)]

Step 6: If students encounter uncertainty during their course selection process, they can click on the course specifications icon on the course page to access descriptions and syllabi or reach out to the course coordinator for personalized counseling. Alternatively, they may seek guidance from the department coordinator or Faculty advisor.

Step 7: Once decisions are finalized, students can proceed to register for their chosen courses through the Course Registration page provided by the University, ensuring a smooth transition into their academic journey.

Course and Credit Structure of UoK-FYUGP

| SEM | DSC (Credit 4) | DSE (Credit 4) | AEC (Credit 3) | SEC (Credit 3) | MDC (Credit 3) | VAC (Credit 3) | Internship (credit-2)/ Project/ Additional Courses (credit-12) | Total Courses | Total Credits |
|---|--|----------------------|------------------------------|----------------------|--------------------------|----------------------|---|-------------------------------------|------------------|
| I | A-1, B-1, C-1, etc. | | AEC1 (EL) AEC2 (OL) | | MDC-1 | | | 6 | 21 |
| II | A-2, B-2, C-2, etc. | | AEC3 (EL) AEC4 (OL) | | MDC-2 | | | 6 | 21 |
| III | A-3, B-3, C-3, etc. | DSE 1 A | | | MDC 3 (KS) (EL/OL) | VAC1 | | 6 | 22 |
| IV | A-4, A-5 | DSE 2 A | | SEC1 | | VAC2 VAC3 | Internship | 6 | 23 |
| V | A-6, A-7, A-8, | DSE 3, DSE 4 | | SEC2 | | | | 6 | 23 |
| VI | A-9, A-10, A-11 | DSE 5, DSE 6 | | SEC3 | | | | 6 | 23 |
| Total | A-11 B-3, C-3 | 6 | 4 | 3 | 3 | 3 | 1 | 36 | 133 |
| Students exiting after three years – awarded UG Degree with Major in A | | | | | | | | | |
| VII | A-12 A-13 B/C- 4 B/C- 5 B/C- 6 | DSE 7 | | | | | | 6 | 24 |
| VIII | MOOC courses A -14, A -15 | | | | | | Research Project/ Internship Project or 03 courses - 12C | 2+1 [#] /3 ^{##} | 20 |
| Total | A -13 B/C etc. - 6 | 7 | 4 | 3 | 3 | 3 | 1+1 [#] /3 ^{##} | 44+1 [#] /47 ^{##} | 177 |

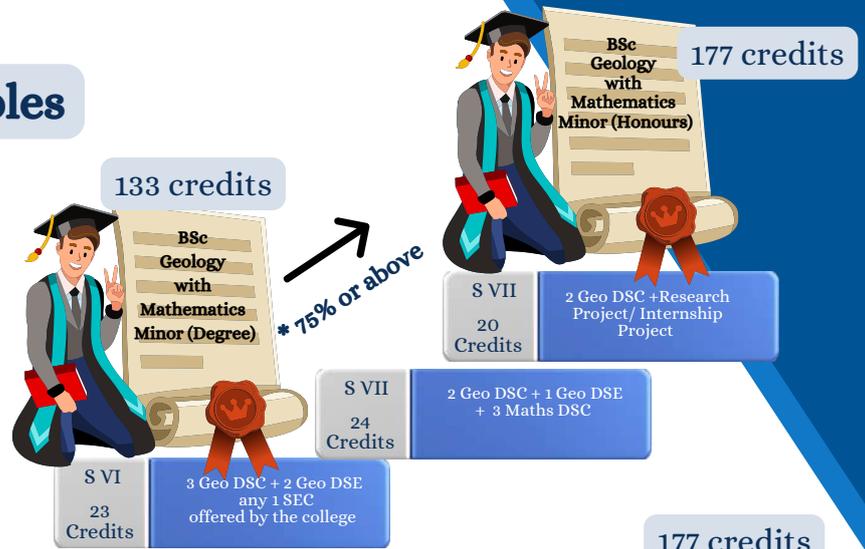
DSC - Discipline Specific Core
DSE - Discipline Specific Elective
AEC- Ability Enhancement Courses
MDC - Multi-Disciplinary Courses
VAC- Value Addition Courses
SEC - Skill Enhancement Courses

DSC A: Major Subject
DSC B, C. etc.: Minor Subjects (B, C etc., can be from the same Subject)
EL: English Language
OL: Other Languages
KS: Kerala Studies
Research Project or Internship Project
03 Additional Courses

Course Routes: Examples

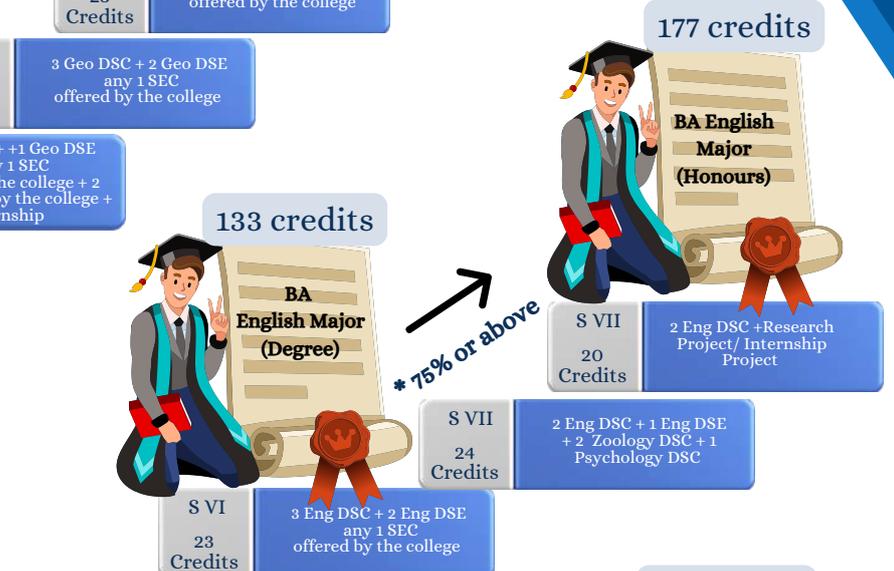
Course Route: Major with Minor (Example)

If a student decides to pursue a Geology Major with a Maths Minor, they would follow this academic path:



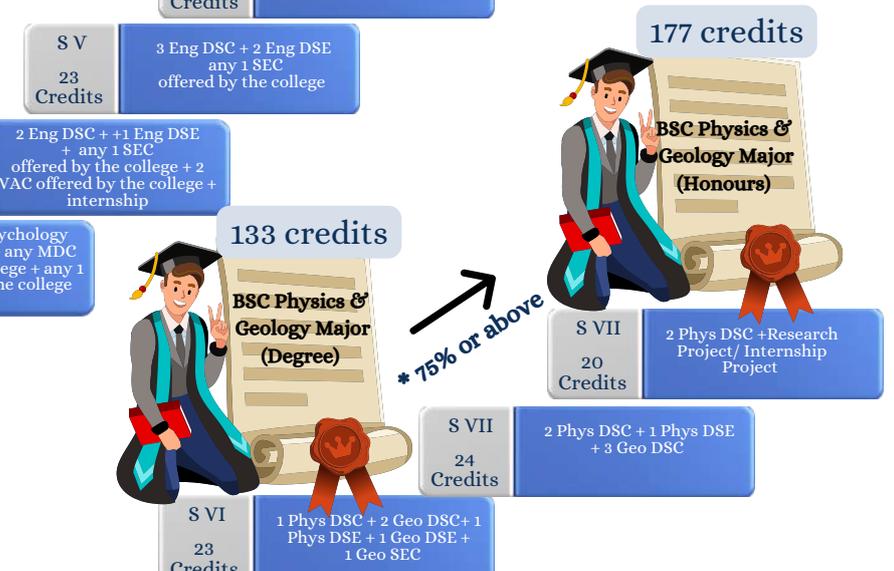
Course Route: Single Major (Example)

If a student decides to pursue an English Major without opting for any consistent Minor courses (choosing random Minor courses over three semesters), they would follow this academic path:



Course Route: Double Major (Example)

If a student decides to take both Physics and Geology as their major courses, they would follow this academic path:



**** Major with Multi Disciplinary Minor:** If a student decides to pursue a Major with Multi-disciplinary Minors, he/she should get 12 credits each from 2 Minor choices

Major & Minor Offering Disciplines

In the Four-Year Undergraduate Program (FYUGP), students have the opportunity to choose their major and minor courses from the Discipline-Specific Core (DSC) offerings provided by their home Higher Education Institution (HEI). For students opting for a single Major, Major with Minor(S), or Double Major it is essential to explore the options available across various departments within their HEI. By carefully considering these choices, students can determine which discipline will be their major and which will be their minor. Additionally, a comprehensive table listing major and minor courses offered at SCAS is given here for reference.

FYUGP in Business Management (BBA) [Major/Minor]

Semester: 1

- DSC - Fundamentals of Management *
- DSC - Environmental Management
- DSC - E-Commerce and Cyber Law
- DSC - Management Functions and Specialisations

Semester: 3

- DSC - Human Resources Management *
- DSC - Entrepreneurship and Start Up Eco-system
- DSC - Business Laws
- DSE - Data Management and Cloud Technologies
- DSE - Financial Technology
- DSE - Organizational Development and Change
- DSE - Consumer Behaviour
- DSE - Logistics and Supply Chain Management

Semester: 5

- DSC - Operations Management *
- DSC - Basics of Financial Accounting
- DSC - Customer Relationship Management
- DSC - Business Analytics
- DSE - Data Visualization and Interpretation
- DSE - Financial Services
- DSE - Performance Management
- DSE - Services and Retail Marketing

Semester: 7

- DSC - Business Policy and Strategic Management *
- DSC - Statistics for Research *
- DSE - Social Media Analytics
- DSE - Behavioural Finance
- DSE - Talent Management
- DSE - International Marketing
- DSE - Quality Management

Semester: 2

- DSC - Marketing Management *
- DSC - Business Ethics and Corporate Governance
- DSC - Business Communication

Semester: 4

- DSC - Financial Management *
- DSC - Organizational Behaviour and Group Dynamics
- DSC - Corporate Regulations
- DSE - Data Mining and Business Intelligence
- DSE - Financial Markets, Institutions and Instruments
- DSE - Labour Law and Industrial Relations
- DSE - Advertising and Sales Promotion
- DSE - Transportation Management

Semester: 6

- DSC - Research Methodology *
- DSC - Statistics for Business Decisions
- DSC - International Business
- DSE - Big Data Analytics
- DSE - Investment Analysis and Portfolio Management
- DSE - Brand Management
- DSE - Social Media Marketing
- DSE - Forecasting and Inventory Management

HONOURS



*- Mandatory course offering

FYUGP in Commerce (Two Elective Streams) [Major/Minor]

Stream 1: Business Information Systems Stream (BISS)

Stream 2: Finance Stream (FS)

Semester: 1

- DSC - Accounting Principles and Standards *
- DSC - Business Communication and Documentation
- DSC - Management Concepts and Practices
- DSC - Indian Financial System
- DSC - Dynamics of Business Environment

Semester: 3

- DSC - Corporate Accounting
- DSC - Legal Dimensions of Business
- DSC - Retail Banking
- DSC - Entrepreneurship Development
- DSC - Principles of Marketing
- DSE - Computer Application in Business (course under BISS)
- DSE - Principles and Practices of Tourism
- DSE - Investment Management (course under FS)
- DSE - International Business

Semester: 5

- DSC - Cost Accounting *
- DSC - Human Resource Management
- DSC - Logistics and Supply Chain Management
- DSC - Financial Management
- DSC - Fundamentals of Income Tax
- DSE - Computerised Accounting (course under BISS)
- DSE - Project Methodology (course under BISS)
- DSE - Tourism Products
- DSE - Stock Exchanges: Operations and Regulations (course under FS)
- DSE - FINTECH (course under FS)
- DSE - International Financial Management

Semester: 7

- DSC - Statistics for Business Research
- DSC - Accounting Standards and Disclosure
- DSC - Strategic Financial Management
- DSE - Database Management System (course under BISS)
- DSE - Eco-Tourism and Sustainable Development
- DSE - Behavioural Finance (course under FS)
- DSE - Global Taxation Regime

Semester: 2

- DSC - Financial Accounting *
- DSC - E-business and Governance
- DSC - Motivation and Leadership in Business
- DSC - Functional Management
- DSC - Practices of Banking and Insurance

Semester: 4

- DSC - Company Administration
- DSC - Business Economics
- DSC - Innovation and Start-ups
- DSC - Business Statistics
- DSE - Software for Data Analysis (course under BISS)
- DSE - Tourism Geography
- DSE - Financial Markets and Services (course under FS)
- DSE - Legal Framework of International Business

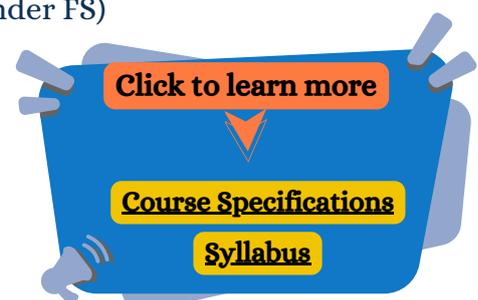
Semester: 6

- DSC - Financial Statement Analysis
- DSC - Cost Accounting Methods and Techniques
- DSC - Auditing Principles and Practices *
- DSC - GST: Law and Practice
- DSC - Research Methodology
- DSE - Advanced Tools for Business Analysis (course under BISS)
- DSE - Web Technology in Business (course under BISS)
- DSE - Travel Agency, Tour Operation and Airline Management
- DSE - Security Analysis and Portfolio Management (course under FS)
- DSE - Financial Derivatives (course under FS)
- DSE - Forex Management

HONOURS



*- Mandatory course offering



FYUGP in Computer Application (BCA) [Major/Minor]

Semester: 1

- DSC -Fundamentals of IT & Computers
- DSC -Problem Solving using C
- DSC -Open Office(p)

Semester: 3

- DSC -DataBase Management
- DSC -Principles of Secure Coding
- DSC -Computer Graphics
- DSE -Introduction to Artificial Intelligence

Semester: 5

- DSC -PHP and MySQL
- DSC -Computer Network
- DSC -Operating system
- DSE -Cryptography & Network Security
- DSE -Data Mining Concepts and Techniques

Semester: 7

- DSC -Mobile and wireless security
- DSC -Augmented Reality
- DSC -Research Methodology *
- DSC -Academic Writing and Publishing
- DSC -E-governance *
- DSE -Computer Vision

Semester: 2

- DSC -Object Oriented Programming using C++
- DSC -Introduction to Multimedia
- DSC -Introduction to Data structures

Semester: 4

- DSC -Software Engineering
- DSC -Python Programming
- DSE -Knowledge Representation and Intelligent Agents

Semester: 6

- DSC -Internet of Things
- DSC -Cloud Computing
- DSC -Operating System Concepts and Techniques
- DSE -Mobile & Wireless Security
- DSE -Big Data Technologies Using Hadoop

HONOURS

*- Mandatory course offering

[Click to learn more](#)

[Course Specifications](#)

[Syllabus](#)

FYUGP in Geology [Major/Minor]

Semester: 1

- DSC -Understanding the Earth
- DSC -Earth Processes
- DSC -Fundamentals of Planetary Science

Semester: 3

- DSC -Crystals and Minerals
- DSC -Petrology
- DSC -Environmental Geology
- DSE -Fundamentals of Hydrogeology

Semester: 5

- DSC -Metamorphic Petrology
- DSC -Magmatic process and Igneous Petrology
- DSC -Sedimentology and Sedimentary Petrology
- DSE -Advance Palaeontology
- DSE -Climatology & Marine Science

Semester: 7

- DSC -Geochemistry and Isotope Geology
- DSC -Applied Geophysics and Exploration Geology
- DSC -Paleoecology
- DSC -Planetary Science
- DSC -Indian Fuel Resources and Mining Policies
- DSE -Mineral wealth of India and Mining Strategies

Semester: 8

- DSC -Advanced Petrology
- DSC -Advanced stratigraphy and Structural Geology

Semester: 2

- DSC -Physical Geology and Geomorphology
- DSC -Evolution of life on earth
- DSC -Mineralogy

Semester: 4

- DSC -Stratigraphy and Palaeontology
- DSC -Descriptive and Optical Mineralogy
- DSE -Field Geology

Semester: 6

- DSC -Economic Geology
- DSC -Foundation of Structural Geology
- DSC -Indian Stratigraphy
- DSE -Exploration and Mining Geology
- DSE -Engineering Geology

HONOURS

[Click to learn more](#)

[Course Specifications](#)

[Syllabus](#)

FYUGP in Psychology [Major/Minor]

**Specializations: 1. Clinical Psychology (CLP) 2. Counselling Psychology (COP)
3. School Psychology (SCP)**

Semester: 1

- DSC -Foundations and Methods of Psychology
- DSC -Fundamentals of Psychology
- DSC -Psychology for Personal Growth

Semester: 3

- DSC -Motivation, Emotion and Individual Differences *
- DSC -Individual Differences
- DSC -Psychology of Human Development
- DSE -Academic Writing In Psychology

Semester: 5

- DSC -Counselling Psychology *
- DSC -Social Behaviour *
- DSC -Abnormal Psychology-I *
- DSE -Psychological Testing and Test Construction
- DSE -Applying Psychology to Education (SCP)
- DSE -Sports Psychology
- DSE -Suicide Prevention (CLP & COP)

Semester: 2

- DSC -Cognitive Processes
- DSC -Introduction to Social Psychology
- DSC -Positive Psychology

Semester: 4

- DSC -Biopsychology
- DSC -Developmental Psychology *
- DSE -Introduction to Criminal Psychology

Semester: 6

- DSC -Fundamentals of Psychological Research *
- DSC -Abnormal Psychology-II
- DSC -Organizational Behaviour
- DSE -Advanced Developmental Psychology (SCP)
- DSE -Career Counselling (COP & SCP)
- DSE -Disorders of Childhood (CLP & SCP)
- DSE -Psychology of Addictive Behaviours (CLP & COP)
- DSE -Data and Data Analysis

Click to learn more

Course Specifications

Syllabus

Semester: 7

- DSC -Advanced Research Methodology
- DSC -Psychotherapy *
- DSE -Counselling in Special Settings (COP)
- DSE -Neuropsychology (CLP)

HONOURS

*- Mandatory course offering

FYUGP in Physics [Major/Minor]

Specialization: 1. Space Physics (SP)

Semester: 1

- DSC -Foundation Course in Physics-I
- DSC -Principles of Dynamics
- DSC -Introduction to Mechanics and Energy resources

Semester: 3

- DSC -Basic Electronics *
- DSC -Heat, Magnetism and Geophysics
- DSC -Light,Electricity and Emerging energy sources
- DSE -Fundamentals of Astrophysics (SP)

Semester: 5

- DSC -Optics *
- DSC -Quantum Mechanics - I *
- DSC -Thermodynamics & Statistical Mechanics *
- DSE -Solar and Plasma Physics (SP)
- DSE -Forensic Physics

Semester: 7

- DSC -Advanced Mathematical Physics
- DSC -Quantum Mechanics-II
- DSE -Frontiers of Space Science, Technology and Programming (SP)

HONOURS

*- Mandatory course offering

Semester: 2

- DSC -Foundation Course in Physics-II
- DSC -Electricity, Magnetism and Acoustics
- DSC -Optics and Thermodynamics

Semester: 4

- DSC -Classical Dynamics *
- DSC -Electromagnetics and Transient Currents *
- DSE -Solar Terrestrial Physics (SP)

Semester: 6

- DSC -Atomic & Molecular Physics *
- DSC -Nuclear & Particle Physics *
- DSC -Solid State Physics *
- DSE -Observing of Weather and Climate
- DSE -Ionosphere and Magnetosphere (SP)

Click to learn more

Course Specifications

Syllabus

FYUGP in English [Major/Minor]

Semester: 1

- DSC -Introduction to Literary Studies
- DSC -Reading Cinema
- DSC -AI and Literary Studies

Semester: 3

- DSC -British Literature: Anglo-Saxons to the Puritans
- DSC -Women's Writing in India
- DSC -Film and Literature
- DSE -History of English Language
- DSE -Fairy Tale Studies
- DSE -Introducing Game Studies

Semester: 5

- DSC -20th and 21st Century British Literature
- DSC -Translation Studies I
- DSC -Introduction to Literary Theory
- DSC -Indian Literature
- DSE -Indian Mythologies Reimagined
- DSE -Crime Fiction
- DSE -Screen Writing and Subtitling

Semester: 7

- DSC -Cultural Studies
- DSC -Research Methodology for Humanities
- DSC -English Language Teaching
- DSC -Translation Studies II
- DSC -Film Studies
- DSE -Speculative Fiction and Fantasy
- DSE -Graphic Narratives

Semester: 2

- DSC -Media Practices
- DSC -Popular Literature
- DSC -Language for Specific Purposes

Semester: 4

- DSC -20th and 21st Century Malayalam Literature in Translation
- DSC -British Literature: Augustans to Victorians
- DSC -Shakespeare Studies
- DSE -Young Adult Narratives
- DSE -Brand Narratives

Semester: 6

- DSC -Postcolonial Literatures
- DSC -Creative Writing for Advertising
- DSC -Theatre Studies
- DSC -Gender and Sexuality
- DSC -Linguistics
- DSE -Critical Review for Media
- DSE -Horror Narratives

Click to learn more

Course Specifications

Syllabus

HONOURS

Journalism & Mass Communication (Vocational) [Minor only option]

Semester: 1

- DSC -Basics of Journalism Practices
- DSC -Sports Journalism

Semester: 2

- DSC -Digital Media Dynamics
- DSC -Convergent Journalism

Semester: 3

- DSC -Introduction to Cinema
- DSC -Newsreading and Anchoring

Semester: 7 (Continuation of Minor Course from Sem 3)

- DSC -Mass Media Research
- DSC -Development Communication

HONOURS

Statistics [Minor only option]

Semester: 1

- DSC - Quantitative Data Analytics I
- DSC - Behavioural Data Analytics I

Semester: 2

- DSC - Quantitative Data Analytics II
- DSC - Behavioural Data Analytics-II

Semester: 3

- DSC - Quantitative Data Analytics -III
- DSC - Behavioural Data Analytics-III

Semester: 7 (Continuation of Minor Course from Sem 3)

- DSC -Statistics and Research Methodology
- DSC -Statistical Inference
- DSC -Basic Statistical Techniques for All Disciplines

Click to learn more

Course Specifications

Syllabus

HONOURS

Mathematics [Minor only option]

Semester: 1

- DSC -Differentiation, Sequence and Series
- DSC -Differentiation and Complex Numbers
- DSC -Matrices and Linear Equations

Semester: 3

- DSC -Differential Equations, Multiple Integrals and Vector Calculus
- DSC -Numerical Analysis
- DSC -Multivariate Calculus and Multiple Integrals

Semester: 2

- DSC -Integration and Applications of differentiation
- DSC -Integral Calculus and Vectors
- DSC -Matrices and Linear Equations

Semester: 7

- DSC -Topology
- DSC -Complex Analysis - II



HONOURS

Zoology [Minor only option]

Semester: 1

- DSC - Wildlife Biology and Conservation
- DSC - Human Nervous System and Behaviour

Semester: 3

- DSC - Body Functions and Regulation
- DSC - Concepts of Ethology

Semester: 2

- DSC - Wildlife Ecology
- DSC - Sensory Physiology

Semester: 7

- DSC - Instrumentation and Biological Techniques
- DSC - Omics and Bioinformatics
- DSC - Human Physiology: The Life Sustaining Systems



HONOURS

Ability Enhancement Courses (AEC)

Ability Enhancement Courses (AECs) are specifically designed to enhance competency in English (E) and other languages (OL). These courses emphasize language and communication skills, aiming to equip students with core linguistic abilities. These mandatory courses must be completed by students during their first two semesters. Collectively, these courses carry a total of 12 credits.

In the first semester, students must choose one course each from AEC 1 and AEC 2. Similarly, in the second semester, they should select one course from AEC 3 and another from AEC 4. Notably, AEC 1 and AEC 3 are offered by the English department, while AEC 2 and AEC 4 are provided by other language departments.

Semester: 1

Offered by the Department of English

AEC 1

- AEC 102 Food, Literature and Culture 1
- AEC 104 Business Communication I
- AEC 112 English Grammar and Communication
- AEC 113 Listening and Speaking in English

AEC 2

Offered by the Department of Malayalam

- AEC 101 സിനിമയും ഭാഷയും
- AEC 107 കഥാലോകം

Offered by the Department of Hindi

- AEC 103 Hindi Natak

Offered by the Department of French

- AEC Français de Tous les Jours I

Semester: 2

Offered by the Department of English

AEC 3

- AEC 102 Food, Literature and Culture 2
- AEC 104 Business Communication II
- AEC 112 English Grammar and Communication
- AEC 113 Reading and Writing in English

AEC 4

Offered by the Department of Malayalam

- AEC 101 സർഗ്ഗാത്മകരചന
- AEC 103 കേരളീയ ഗാനപാരമ്പര്യം

Offered by the Department of Hindi

- AEC 103 Hindi Cinema

Offered by the Department of French

- AEC 100 Français de Tous les Jours II



Multi-disciplinary Courses (MDC)

These courses enhance students' intellectual horizons and establish foundational concepts across various disciplines, including arts, science, commerce, languages, and social sciences. As part of the undergraduate program, all students must complete three introductory-level MDCs (Multi-disciplinary Courses) in disciplines other than their chosen major. Additionally, except for the double major pathway, every student is required to enroll in the compulsory course titled 'Kerala Studies' during the third semester. The remaining two MDCs are optional. Overall, students will study MDC courses during the first three semesters, accumulating a total of 9 credits.

Semester I

Offered by: Business Management

- MDC -Organizational Behaviour

Offered by: Commerce

- MDC -Accounting for Everyone
- MDC -Fundamentals of Investment

Offered by: Computer Application

- MDC -Web Designing using HTML5 and CSS3

Offered by: English

- MDC -Pop Culture

Offered by: Geology

- MDC -Natural Energy Resource Management

Offered by: Malayalam

- MDC -മാധ്യമപഠനം
- MDC -മത്സരപരീക്ഷയിലെ മലയാളം

Offered by: Mathematics

- MDC -Numerical Ability - I

Offered by: Physics

- MDC -Physics in Arts and Sports

Offered by: Psychology

- MDC -Essential Psychology for Graduate Students

Offered by: Zoology

- MDC -Health and Sex Education

Semester III

Offered by: English

- MDC -Kerala Studies-Art and Culture

Offered by: FYUGP Hindi

- MDC -Keral ki Kalayein

Offered by: FYUGP Malayalam

- MDC -കേരളം - ദേശം - പ്രകൃതി - സമൂഹം
- MDC -കേരളം - ഭാഷ - സാഹിത്യം - കല

Semester II

Offered by: Business Management

- MDC -Stock Market Operations
- MDC -Service Marketing

Offered by: Commerce

- MDC -Personal Financial Planning
- MDC -Investing in Stock Market

Offered by: Computer Application

- MDC -Social Media Management

Offered by: English

- MDC -Comics and Graphic Fiction

Offered by: Geology

- MDC -Geoscience and Environmental Management

Offered by: Malayalam

- MDC -മാധ്യമസാങ്കേതികതയും വിപണനവും
- MDC -തിരക്കഥാരചന

Offered by: Mathematics

- MDC -Numerical Ability- II

Offered by: Physics

- MDC -Basics of Artificial Intelligence

Offered by: Psychology

- MDC -Psycho-cultural Analysis of Film & Cultural Products

Offered by: Statistics

- MDC -Data Interpretation and Quantitative Reasoning

Offered by: Zoology

- MDC -Global Climate Change



Value Addition Courses (VAC)

These courses aim to foster the development of graduate students' personalities, enhance their perspective-building skills, and promote self-awareness. By engaging in these courses, students can explore their true feelings, thoughts, abilities, and actions, empowering them to recognize their strengths and gain insights to overcome challenges. Specifically, students are required to earn 9 credits through three papers: one in the third semester and two in the fourth semester.

Semester III

Offered by: Business Management

- VAC - Skills For Managers

Offered by: Commerce

- VAC - Business and Professional Ethics

Offered by: Computer Application

- VAC - Entrepreneurship in IT

Offered by: English

- VAC - Environmental Narratives

Offered by: Hindi

- VAC - PRAKRUTI KE SAATH

Offered by: Malayalam

- VAC - ഭിന്നശേഷിപഠനം

Offered by: Mathematics

- VAC - Project Management and Game Theory

Offered by: Physics

- VAC - Energy crisis, Sustainability and Management

Offered by: Psychology

- VAC - Psychological First Aid: Theory & Practice

Offered by: Zoology

- VAC - Nutrition, Health and Wellness

Semester: IV (2 papers to be chosen)

Offered by: Business Management

- VAC - Career Planning and Development

Offered by: Commerce

- VAC - Consumer Rights and Protection
- VAC - Sustainable Business Practices

Offered by: Computer Application

- VAC - Software Quality Management
- VAC - Preface to Cyber Laws

Offered by: English

- VAC - Cinema and the Art of Communication

Offered by: Geology

- VAC - Ecosystem Services
- VAC - Natural Hazards and Disaster Management

Offered by: Hindi

- VAC - Gandhi Mere Bheetar

Offered by: Journalism

- VAC - Inclusivity and Media Practices

Offered by: Malayalam

- VAC - മാനവിക മലയാളം
- VAC - ടൂറിസവും സാംസ്കാരിക വിനിമയവും

Offered by: Mathematics

- VAC - Mathematics in Nature

Offered by: Physics

- VAC - Research and Publication Ethics
- VAC - Disaster management

Offered by: Psychology

- VAC - Psychology of Relationship
- VAC - Gender, Sexuality & Youth Mental Health

Offered by: Statistics

- VAC - Data Analysis Using Spreadsheets

Offered by: Zoology

- VAC - Bioeconomics and Ecotourism



Skill Enhancement Courses

These courses aim to equip graduate students with essential abilities for performing various tasks. Emphasizing self-learning skills and lifelong learning, they prepare students to navigate the ever-changing and demanding work landscape. The primary goal of these courses is to bridge the gap between theoretical knowledge and experiential knowledge. Students will study these courses for a total of 9 credits, distributed as 3 credits per semester in the 4th, 5th, and 6th semesters.

Semester IV

Offered by: Business Management

- SEC - Digital Marketing

Offered by: Commerce

- SEC - Entrepreneurial Skills
- SEC - Digital Media Marketing

Offered by: Computer Application

- SEC - Content Management System

Offered by: English

- SEC - Soft Skills for Tourism & Hospitality
- SEC - Essential Skills for Everyday life

Offered by: Geology

- SEC - Gemology
- SEC - Coal and Petroleum Geology

Offered by: Malayalam

- SEC - മാധ്യമപ്രയോഗ പാഠങ്ങൾ

Offered by: Mathematics

- SEC - Numerical Methods

Offered by: Physics

- SEC - Wiring and Electrical Devices

Offered by: Psychology

- SEC - Bettering Communications Through Transactional Analysis

Offered by: Statistics

- SEC - Statistical Analysis Using R

Semester V

Offered by: Business Management

- SEC - Computerized Accounting

Offered by: Commerce

- SEC - Data Analysis and Visualization in Finance
- SEC - Forensic Accounting and Fraud Detection

Offered by: Computer Application

- SEC - Web Application Development

Offered by: English

- SEC - Personality Development and Communication Mastery for Career Success

Offered by: Geology

- SEC - Geotechnical Investigation of Soils

Offered by: Hindi

- SEC - Web Literature in Hindi

Offered by: Malayalam

- SEC - ചലച്ചിത്ര സാങ്കേതികത

Offered by: Physics

- SEC - Optics in Digital Photography

Offered by: Psychology

- SEC - Essential Skills for Counselling

Offered by: Zoology

- SEC - Vermiculture and Vermicomposting

Semester VI

Offered by: Business Management

- SEC - Income Tax- Assessment and Filing

Offered by: Commerce

- SEC - Accounting Software
- SEC - Stock Market Operations

Offered by: Computer Application

- SEC - Game application Development

Offered by: English

- SEC - Developing and Curating Digital content

Offered by: Geology

- SEC - Remote Sensing and Geographic Information System

Offered by: Hindi

- SEC - Art of Advertisement

Offered by: Malayalam

- SEC - പ്രസാധനവും വിപണനവും
- SEC - പ്രക്ഷേപണവും സംപ്രേഷണവും

Offered by: Physics

- SEC - Fibre Optic Technology

Offered by: Psychology

- SEC - Skills for Parent Education & Support

Offered by: Zoology

- SEC - Ornamental Fish production and Aquarium Management

Click to learn more

Course Specifications

FYUGP in Business Management (BBA)

Management Studies/Business Management is a dynamic field that prepares students to navigate the complexities of the business world. In today's globalized economy, organizations seek skilled professionals who can drive growth, optimize resources, and lead teams effectively. The courses we have here blend theory with real-world applications through case studies, simulations, internships, and projects. Whether aspiring to lead organizations, start ventures, or drive innovation, Management Studies opens doors to endless possibilities. Our department is equipped with experienced faculties and necessary facilities, empowering students to shape their own career paths. Here are some course pathways that one can choose to lead to a successful career and skill enhancement opportunities:

Human Resources and Organizational Development:

- **Course Combination:** “Human Resources Management” and “Organizational Development and Change” focus on HR practices, employee relations, and organizational effectiveness.
- **Potential Career Pathways:** HR Specialist, Talent Acquisition Manager, Training and Development Coordinator.

Financial Acumen and Analysis:

- **Course Combination:** “Financial Management,” “Financial Markets,” and “Investment Analysis” develop financial skills.
- **Potential Career Pathways:** Financial Analyst, Investment Banker, Financial Planner.

Data Analytics and Business Intelligence:

- **Course Combination:** “Data Management,” “Data Mining,” and “Business Analytics” emphasize data-driven decision-making.
- **Potential Career Pathways:** Business Analyst, Data Analyst, Market Researcher.

Marketing and Customer Relationship Management:

- **Course Combination:** “Customer Relationship Management,” “Services and Retail Marketing,” and “Social Media Marketing” focus on marketing strategies and customer engagement.
- **Potential Career Pathways:** Marketing Specialist, Sales Manager, Digital Marketing Coordinator.

Supply Chain and Logistics Management:

- **Course Combination:** “Logistics and Supply Chain Management” and “Transportation Management” cover supply chain processes.
- **Potential Career Pathways:** Supply Chain Manager, Logistics Coordinator, Operations Manager.

Department Coordinator/HoD: Dr Ajinu B

Department email : bbadeptscas@gmail.com



FYUGP in Commerce (B.Com)

The **Commerce** Stream offered through the FYUGP Programme provides students with a comprehensive foundation in business principles, accounting practices, financial management, marketing strategies, and entrepreneurship skills. With a diverse range of courses covering areas such as accounting, finance, management, marketing, and taxation, students gain a holistic understanding of various facets of commerce and business operations. The program offers two main elective streams: **Business Information Systems (BISS) and Finance (FS)**. The BISS stream focuses on equipping students with skills in computer applications, data analysis, software development, and e-business solutions, preparing them for roles in information technology, data analytics, and business intelligence. On the other hand, the Finance stream emphasizes financial management, investment analysis, banking operations, and international finance, paving the way for careers in corporate finance, investment banking, financial planning, and risk management. Moreover, the department boasts state-of-the-art computer lab facilities and a team of expert faculty members who provide guidance and support to students in navigating their course selections and career pathways, ensuring a robust learning experience tailored to individual interests and goals.

Financial Management and Accounting:

- **Course Combination:** "Financial Management" and "Financial Accounting" provide a comprehensive understanding of financial principles, reporting, and analysis.
- **Potential Career Pathways:** Financial Analyst, Financial Controller, Accounting Manager, Budget Analyst.

Entrepreneurship and Business Innovation:

- **Course Combination:** "Entrepreneurship Development" and "Innovation and Start-ups" equip students with skills in creating and managing innovative business ventures.
- **Potential Career Pathways:** Entrepreneur, Business Consultant, Venture Capitalist.

Marketing and Retail Management:

- **Course Combination:** "Principles of Marketing" and "Retail Banking" focus on marketing strategies, consumer behavior, and retail management practices.
- **Potential Career Pathways:** Marketing Manager, Brand Manager, Retail Buyer, Sales Manager.

International Business and Global Finance:

- **Course Combination:** "International Business" and "International Financial Management" delve into global trade, foreign exchange, and international finance.
- **Potential Career Pathways:** International Business Analyst, Global Marketing Manager, Trade Finance Specialist.

Tourism Management and Financial Services:

- **Course Combination:** "Principles and Practices of Tourism" and "Financial Markets and Services" explore tourism industry dynamics and financial services in the context of tourism.
- **Potential Career Pathways:** Tourism Manager, Destination Manager, Travel Consultant, Financial Advisor in Tourism Sector.

Head of the Department: Dr Suma R
Department Coordinator: Sherin Raj U
Department email : commerce23scas@gmail.com

FYUGP in Computer Application (BCA)

The **Computer Application** program offers a dynamic and comprehensive curriculum that equips students with the knowledge and skills essential for success in the rapidly evolving field of technology. Covering a wide array of subjects ranging from programming languages like C, C++, and Python to advanced topics such as Cloud Computing, Data Mining, and Augmented Reality, this program provides students with a solid foundation in both theoretical concepts and practical applications.

With a focus on emerging technologies like Internet of Things and Mobile & Wireless Security, students are prepared to tackle the challenges of the digital age and contribute to innovation in various industries. Moreover, the department boasts good lab facilities and a team of expert faculty who are dedicated to guiding and counseling students, ensuring they make informed choices and excel in their academic and professional endeavors. Here are some course pathways that one can choose to lead to a successful career and skill enhancement Opportunities:

Emerging Technologies Cluster:

- **Course Combination:** "Internet of Things", "Cloud Computing", and "Augmented Reality" offer a comprehensive understanding of cutting-edge technologies shaping the future.
- **Potential Career Pathways:** IoT Developer, Cloud Solutions Architect, AR/VR Developer, Emerging Technology Specialist.

Security and Data Management Cluster:

- **Course Combination:** "Cryptography & Network Security", "Mobile & Wireless Security", and "Data Mining Concepts and Techniques" equip students with expertise in securing data and networks, as well as analyzing large datasets.
- **Potential Career Pathways:** Cybersecurity Analyst, Information Security Specialist, Data Analyst, Big Data Engineer.

Software Development Cluster:

- **Course Combination:** "Object Oriented Programming using C++", "Software Engineering", and "Python Programming" provide a solid foundation in software development methodologies and programming languages.
- **Potential Career Pathways:** Software Developer, Software Engineer, Application Developer, Python Developer.

System Administration and Infrastructure Cluster:

- **Course Combination:** "Operating System", "Operating System Concepts and Techniques", and "Computer Network" focus on managing networks and operating systems.
- **Potential Career Pathways:** Network Administrator, System Administrator, IT Support Specialist.

Research and Academic Cluster:

- **Course Combination:** "Research Methodology", "Academic Writing and Publishing", and "Computer Vision" prepare students for research-oriented careers and academia.
- **Potential Career Pathways:** Researcher, Academician, Data Scientist, Computer Vision Engineer.

Department Coordinator/HoD: Karthika Senan

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FYUGP in Physics (B.Sc. Physics)

Studying **Physics** offers a vast scope for both career and knowledge enrichment. Across its various semesters, this program delves into fundamental principles and advanced topics, ranging from classical mechanics to quantum physics, from optics to solid-state physics. The curriculum not only equips students with a deep understanding of the physical world but also cultivates critical thinking, problem-solving, and analytical skills crucial for a wide array of career paths. Moreover, with courses like Basic Electronics, Quantum Mechanics, and Solid State Physics, students are prepared for cutting-edge fields such as electronics, nanotechnology, and quantum computing. The inclusion of specialized courses like Solar Terrestrial Physics and Forensic Physics expands the horizon of career opportunities in fields like space research, environmental science, and forensic investigation. The department's excellent laboratory facilities and expert faculty further enhance the learning experience, providing hands-on training and personalized guidance to students, ensuring they make informed choices and excel in their chosen paths within the dynamic realm of physics. Here are some course pathways that one can choose to lead to a successful career and skill enhancement:

Quantum Mechanics and Statistical Mechanics:

- **Course Combination:** Taking both “Quantum Mechanics” and “Statistical Mechanics” provides a deep understanding of fundamental principles in physics. These courses equip you with the tools to analyze complex systems, predict behavior at the quantum level, and understand statistical distributions.
- **Potential Career Pathways:** Quantum Physicist, Research Scientist, Data Analyst.

Electromagnetics and Optics:

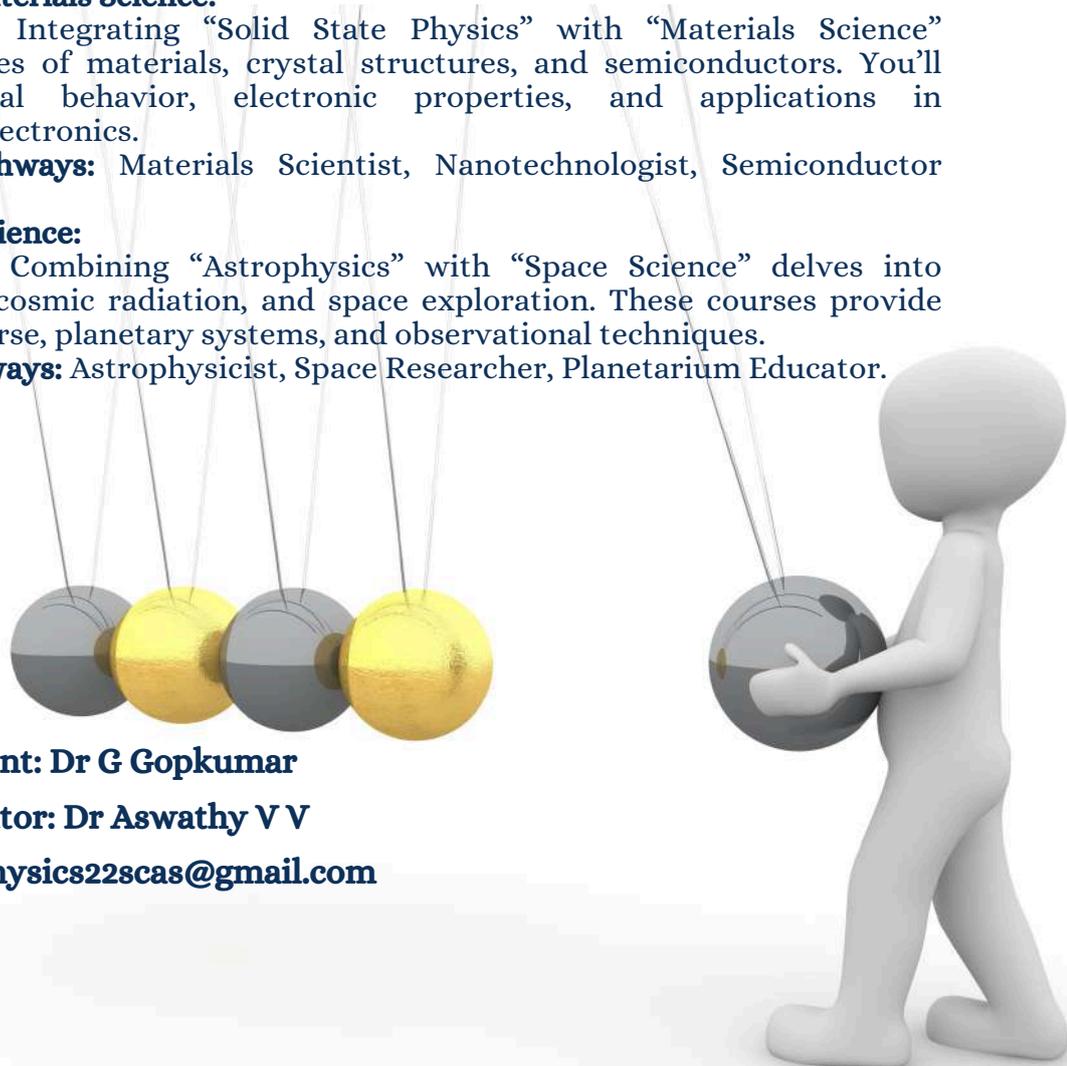
- **Course Combination:** Pairing “Electromagnetics” with “Optics” covers the study of electromagnetic waves, light propagation, and optical phenomena. You’ll gain expertise in designing optical systems, analyzing wave behavior, and understanding light-matter interactions.
- **Potential Career Pathways:** Optics Engineer, Laser Scientist, Photonics Specialist.

Solid State Physics and Materials Science:

- **Course Combination:** Integrating “Solid State Physics” with “Materials Science” explores the properties of materials, crystal structures, and semiconductors. You’ll learn about material behavior, electronic properties, and applications in nanotechnology and electronics.
- **Potential Career Pathways:** Materials Scientist, Nanotechnologist, Semiconductor Engineer.

Astrophysics and Space Science:

- **Course Combination:** Combining “Astrophysics” with “Space Science” delves into celestial phenomena, cosmic radiation, and space exploration. These courses provide insights into the universe, planetary systems, and observational techniques.
- **Potential Career Pathways:** Astrophysicist, Space Researcher, Planetarium Educator.



Head of the Department: Dr G Gopkumar

Department Coordinator: Dr Aswathy V V

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FYUGP in Geology (B.Sc. Geology)

The **Geology** program provides a comprehensive and varied curriculum that equips students for academic and professional endeavors in Earth sciences. From understanding the processes shaping our planet to exploring its vast mineral resources and uncovering its ancient history through paleontology, the courses provide a comprehensive foundation in geological principles. With specialized subjects like economic geology, environmental geology, and exploration techniques, students gain practical skills relevant to industries such as mining, environmental consulting, and energy exploration.

The department boasts outstanding laboratory facilities, Geology museum and a distinguished faculty, offering students practical experience and individualized mentorship. This prepares them to make well-informed choices regarding their educational and professional journeys. Graduates, whether they aim to be geologists, paleontologists, environmental consultants, or exploration geophysicists, will be well-prepared to contribute significantly to the comprehension and conservation of Earth's natural resources and its history. Here are some course pathways that one can choose to lead to a successful career and skill enhancement:

Geological Exploration and Resource Management Cluster:

- **Course Combination:** "Field Geology", "Exploration and Mining Geology", and "Mineral wealth of India and Mining Strategies" provide a comprehensive understanding of geological fieldwork, mineral exploration techniques, and resource management strategies.
- **Potential Career Pathways:** Exploration Geologist, Mining Engineer, Resource Geologist

Paleontology and Environmental Science Cluster:

- **Course Combination:** "Stratigraphy and Palaeontology", "Advance Palaeontology", and "Climatology & Marine Science" focus on the study of Earth's history, fossils, and environmental processes.
- **Potential Career Pathways:** Paleontologist, Environmental Consultant, Climate Scientist, Marine Biologist.

Petrology and Geochemistry Cluster:

- **Course Combination:** "Metamorphic Petrology", "Magmatic process and Igneous Petrology", and "Geochemistry and Isotope Geology" delve into the composition and processes of rocks and minerals, along with geochemical analysis techniques.
- **Potential Career Pathways:** Petrologist, Geochemist, Geophysical Chemist, Research Scientist.

Structural Geology and Engineering Geology Cluster:

- **Course Combination:** "Foundation of Structural Geology", "Engineering Geology", and "Advanced Stratigraphy and Structural Geology" focus on the study of geological structures, their formation, and their application in engineering projects.
- **Potential Career Pathways:** Structural Geologist, Geotechnical Engineer, Geohazard Specialist, Environmental Consultant.

Planetary Science and Exploration Cluster:

- **Course Combination:** "Fundamentals of Planetary Science", "Planetary Science", and "Applied Geophysics and Exploration Geology" explore the study of planets, moons, and celestial bodies, along with exploration techniques.
- **Potential Career Pathways:** Planetary Scientist, Space Exploration Engineer, Remote Sensing Specialist, Astrobiologist.

Department Coordinator/HoD: Dr Silpa B L

Department email : geologyscas23@gmail.com



FYUGP in Psychology (B.Sc Psychology)

The **Psychology** program offers a comprehensive curriculum designed to provide students with a deep understanding of human behavior and mental processes. From foundational courses in psychology to specialized topics such as counseling psychology, neuropsychology, and research methodology, students are exposed to a wide range of theories and methodologies that prepare them for diverse career paths in the field of psychology. With an emphasis on hands-on learning and practical application, students benefit from access to state-of-the-art lab facilities and expert faculty who provide guidance and mentorship to help students navigate their academic and professional journey. Whether pursuing careers in clinical psychology, counseling, research, or education, graduates of the Psychology program will be well-equipped with the knowledge, skills, and practical experience needed to make meaningful contributions to the field and positively impact the lives of others. Here are some course pathways that one can choose to lead to a successful career and skill enhancement:

Counselling Psychology Cluster (Recognized Specialization Pathway):

- **Course Combination:** "Suicide Prevention", "Career Counselling", "Psychology of Addictive Behavior", and "Counselling in Special Settings" cover techniques and interventions for suicide prevention, career development and guidance, addiction psychology, and specialized counselling methods for various settings.
- **Potential Career Pathways:** Counselling Psychologist, Career Counsellor, Addiction Counsellor, Special Settings Counsellor (e.g., schools, hospitals, rehabilitation centers).

Abnormal Psychology Cluster:

- **Course Combination:** "Abnormal Psychology-I", "Abnormal Psychology-II", and "Disorders of Childhood" delve into the understanding and treatment of psychological disorders across the lifespan.
- **Potential Career Pathways:** Clinical Psychologist, Psychiatric Social Worker, Behavioral Therapist, Rehabilitation Specialist.

Neuropsychology and Behavioral Neuroscience Cluster:

- **Course Combination:** "Biopsychology", "Neuropsychology", and "Cognitive Processes" explore the biological basis of behavior, brain function, and cognitive processes.
- **Potential Career Pathways:** Neuropsychologist, Neuroscience Researcher, Clinical Neuropsychologist, Behavioral Neuroscientist.

Clinical Psychology Cluster (Recognized Specialization Pathway):

- **Course Combination:** "Suicide Prevention", "Disorders of Childhood", "Psychology of Addictive Behavior", and "Neuropsychology" explore the prevention and intervention strategies for suicide, understanding childhood psychological disorders, addictive behaviors, and the relationship between brain function and behavior.
- **Potential Career Pathways:** Clinical Psychologist, Child Psychologist, Addiction Specialist, Neuropsychologist.

School Psychology Cluster (Recognized Specialization Pathway):

- **Course Combination:** "Applying Psychology to Education", "Advanced Developmental Psychology", "Career Counselling", and "Disorders of Childhood" focus on the application of psychological principles in educational settings, advanced understanding of child and adolescent development, career guidance, and the assessment and treatment of childhood disorders.
- **Potential Career Pathways:** School Psychologist, Educational Psychologist, Career Counselor, Child Psychologist.

Department Coordinator/HoD: Dr Jisha P R

Department email : psycas@gmail.com



FYUGP in English (BA English)

The **English** program offers a comprehensive curriculum designed to foster a deep understanding of language, literature, and cultural discourse. From foundational courses in literary studies and critical analysis to specialized topics such as translation studies, popular literature, and content writing, students are exposed to a diverse range of literary forms, genres, and cultural texts. With an emphasis on developing critical thinking, analytical, and communication skills, graduates will be well-prepared for a variety of career pathways in fields such as translation, publishing, media, education, and content creation.

The department boasts expert faculty who provide mentorship and guidance to students, assisting them in navigating their academic journey and making informed course choices. Additionally, as part of the content writing cluster, the department publishes an annual newsletter with student support, providing hands-on experience in content creation and publication. Here are some course pathways that one can choose to lead to a successful career and skill enhancement:

Translation Studies Cluster:

- **Course Combination:** "Translation Studies I", "Translation Studies II", and "20th and 21st Century Malayalam Literature in Translation" equip students with the theoretical knowledge and practical skills necessary for translating literary and cultural texts across languages.
- **Potential Career Pathways:** Translator, Localization Specialist, Language Services Manager, International Relations Officer.

Popular Literature and Fiction Cluster:

- **Course Combination:** "Popular Literature", "Crime Fiction", and "Speculative Fiction and Fantasy" delve into various genres of popular literature and fiction, providing students with an understanding of their conventions, themes, and cultural significance.
- **Potential Career Pathways:** Writer, Editor, Literary Critic, Content Creator.

Content Writing and Creative Writing Cluster:

- **Course Combination:** "Creative Writing for Advertising", "Screen Writing and Subtitling", and "Brand Narratives" focus on developing creative writing skills and storytelling techniques across different mediums.
- **Potential Career Pathways:** Content Writer, Copywriter, Screenwriter.

Literary Studies and Analysis Cluster:

- **Course Combination:** "Introduction to Literary Studies", "Introduction to Literary Theory", and "Critical Review for Media" provide students with a foundational understanding of literary analysis and critical thinking skills.
- **Potential Career Pathways:** Literary Critic, Media Analyst, Content Strategist, Researcher.

Media and Cultural Studies Cluster:

- **Course Combination:** "Reading Cinema", "Media Practices", and "Film Studies" explore the intersections between media, culture, and society, fostering critical analysis of cinematic texts and media practices.
- **Potential Career Pathways:** Film Critic, Media Researcher, Cultural Analyst, Food Critic, Influencer/Reviewer.

Head of the Department: Dr Annamma George

Department Coordinator: Geethu Nadh G S

Department email : deptofengscas@gmail.com



Navigating Minor Selections: Strategies and Common Combinations

When choosing Minors, students can select from a variety of options provided by their institution. These range from a mix of various minors worth 4 credit/selection to more comprehensive selections of up to 24 credits within a discipline. In the case of multidisciplinary minors, students need to select three courses from each of two disciplines, totaling 12 credits per minor discipline. If a student decides on a single minor to accompany their major, they need to complete 24 credits across six courses in that discipline. Students are free to select any minor they wish, but certain combinations are often recommended due to their popularity and the additional knowledge they provide. Be advised that these are not mandatory choices, but recommendations for better knowledge acquisition prospects.

1 Major in Business Management

- **Choice 1- Minor in Computer Application : Papers** - Fundamentals of IT & Computers, Open Office(p), Introduction to Multimedia, Introduction to Data Structures, Principles of Secure Coding, DataBase Management
- **Choice 2 - Minor in Commerce : Papers** - Management Concepts and Practices, Dynamics of Business Environment, E-business and Governance, Motivation and Leadership in Business, Legal Dimensions of Business, Entrepreneurship Development
- **Choice 3- Minor in Statistics Papers** - Quantitative Data Analytics I, Behavioural Data Analytics I, Quantitative Data Analytics II, Behavioural Data Analytics-III, Statistical Inference, Basic Statistical Techniques For All Disciplines

2. Major in Commerce

- **Choice 1- Minor in Computer Application : Papers** - Fundamentals of IT & Computers, Open Office(p), Object-Oriented Programming using C++, Database Management, Introduction to Multimedia, Introduction to Data Structures
- **Choice 2 - Minor in Mathematics : Papers** - Differentiation, Sequence and Series , Matrices and Linear Equations, Numerical Analysis, Integration and Applications of differentiation, Numerical Analysis, Multivariate Calculus and Multiple Integrals
- **Choice 3-Minor in Business Management : Papers** - Environmental Management, E-Commerce and Cyber Law, Business Communication, Business Ethics and Corporate Governance, Entrepreneurship and Start-Up Eco-System

3. Major in Computer Application

- **Choice 1-Minor in Business Management : Papers** - Environmental Management, E-Commerce and Cyber Law, Business Communication, Business Ethics and Corporate Governance, Entrepreneurship and Start-Up Eco-System, Human Resources Management
- **Choice 2 -Minor in Mathematics : Papers** - Differentiation, Sequence and Series , Matrices and Linear Equations, Numerical Analysis, Integration and Applications of differentiation, Numerical Analysis, Multivariate Calculus and Multiple Integrals
- **Choice 3-Minor in Statistics : Papers** - Quantitative Data Analytics I, Behavioural Data Analytics I, Quantitative Data Analytics II, Behavioural Data Analytics-III, Statistical Inference, Basic Statistical Techniques For All Disciplines

4. Major in English

- **Choice 1-Minor in Journalism : Papers** - Basics of Journalism Practices, Sports Journalism, Digital Media Dynamics, Convergent Journalism, Introduction to Cinema, Newsreading and Anchoring
- **Choice 2 -Minor in Psychology : Papers** - Foundations and Methods of Psychology, Psychology For Personal Growth, Introduction To Social Psychology, Positive Psychology, Individual Differences, Psychology Of Human Development
- **Choice 3-Minor in Business Management : Papers** - Fundamentals of Management, E-Commerce and Cyber Law, Business Communication, Business Ethics and Corporate Governance, Entrepreneurship and Start-Up Eco-System, Human Resources Management

5. Major in Geology

Choice 1-Minor in Physics : Papers - Foundation Course in Physics-I, Principles of Dynamics, Foundation Course in Physics-II, Electricity, Magnetism and Acoustics, Heat, Magnetism and Geophysics, Light, Electricity and Emerging energy sources

Choice 2 -Minor in Mathematics : Papers - Differentiation, Sequence and Series , Matrices and Linear Equations, Numerical Analysis, Integration and Applications of differentiation, Numerical Analysis, Multivariate Calculus and Multiple Integrals

Choice 3 -Minor in Zoology : Papers - Wildlife Biology and Conservation, Human Nervous System and Behaviour, Wildlife Ecology, Sensory Physiology, Concepts of Ethology, Body Functions and Regulation

6. Major in Physics

Choice 1-Minor in Computer Application : Papers - Fundamentals of IT & Computers, Open Office(p), Object-Oriented Programming using C++, Database Management, Introduction to Multimedia, Introduction to Data Structures

Choice 2-Minor in Statistics : Papers - Quantitative Data Analytics I, Behavioural Data Analytics I, Quantitative Data Analytics II, Behavioural Data Analytics-III, Statistical Inference, Basic Statistical Techniques For All Disciplines

Choice 3-Minor in Mathematics : Papers - Differentiation, Sequence and Series , Matrices and Linear Equations, Numerical Analysis, Integration and Applications of differentiation, Numerical Analysis, Multivariate Calculus and Multiple Integrals

7. Major in Psychology

Choice 1-Minor in Zoology : Papers - Wildlife Biology and Conservation, Human Nervous System and Behaviour, Wildlife Ecology, Sensory Physiology, Concepts of Ethology, Body Functions and Regulation

Choice 2-Minor in Statistics : Papers - Quantitative Data Analytics I, Behavioural Data Analytics I, Quantitative Data Analytics II, Behavioural Data Analytics-III, Statistical Inference, Basic Statistical Techniques For All Disciplines

Choice 3-Minor in English : Papers - Reading Cinema, AI and Literary Studies, Media Practices, Language for Specific Purposes, Women's Writing in India, Film and Literature

Enrichment Programs & Diverse Learning Opportunities

SCAS Multi-disciplinary Course Highlights



Courses on Stock Market



Courses on Earth, its Resources & Climate



Courses on Psychology, health & sex education



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Courses on Web designing, AI & Social Media Management



Courses on Numerical ability & Quantitative Reasoning

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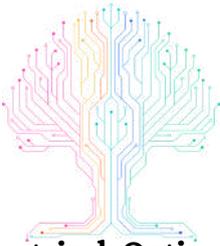
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Our Partnerships & Collaborations

In the fourth and eighth semesters, according to the Four-Year Graduate Program framework, students should complete a summer internship and a capstone internship, respectively. These internships aim to bridge the gap between theoretical knowledge and experiential learning, aligning with our curriculum's objectives. Saraswathi College of Arts and Science, is proud to have collaborations with several esteemed organizations to enhance the educational and professional development of our students. We are associated with IIRS-ISRO as a Nodal Centre for Short Term Courses, providing cutting-edge space research education. Our partnerships with KELTRON, NSDC (National Skill Development Corporation), and NISH (National Institute of Speech and Hearing) offer diverse skill development and specialized training opportunities. Additionally, collaborations with Star Health, ALIVE, the Centre for Environment and Development (CED), Northamps, and Veranda Race ensure comprehensive support and resources. Veranda Race offers free online training for PSC and SSC examinations, further enriching our students' academic and career prospects. Moreover, we have many other associations that contribute to our mission of delivering a holistic and future-ready education.

IIRS-ISRO

KELTRON

NISH

NSDC

Star Health

ALIVE

CED

Veranda Race



SARASWATHI COLLEGE OF ARTS & SCIENCE

Vilappil, Thiruvananthapuram

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