

SREEKRISHNAPURAM V.T. BHATTATHIRIPAD COLLEGE

Aided and Affiliated to University of Calicut, NAAC Accredited with B+ Grade Phone (Office) : 0466-2268285 | Email : principalvtbcollege@gmail.com

CRITERION - VI GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

SREEKRISHNAPURAM V.T. BHATTATHIRIPAD COLLEGE

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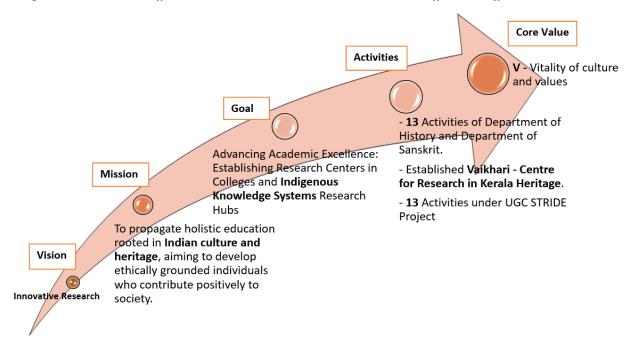
6.1 Institutional Vision and Leadership

6.1.1 - Sustained Growth

The progress of Sreekrishnapuram V. T. Bhattathiripad College reflects its steadfast dedication to continuous development, consistently upholding its vision, mission and core values. VTB College's journey is characterized by a holistic approach to education, blending research excellence, cultural appreciation, environmental stewardship, social responsibility, and technological progress. This multifaceted approach not only aligns with the college's vision and mission but also prepares its students to make meaningful contributions to society. Following report mentioned the sustained development of the college is strategically guided across college's mission and attained a core value.

Mission 1 - To propagate holistic education rooted in Indian culture and heritage, aiming to develop ethically grounded individuals who contribute positively to society. **Core Value - Vitality of culture and values**

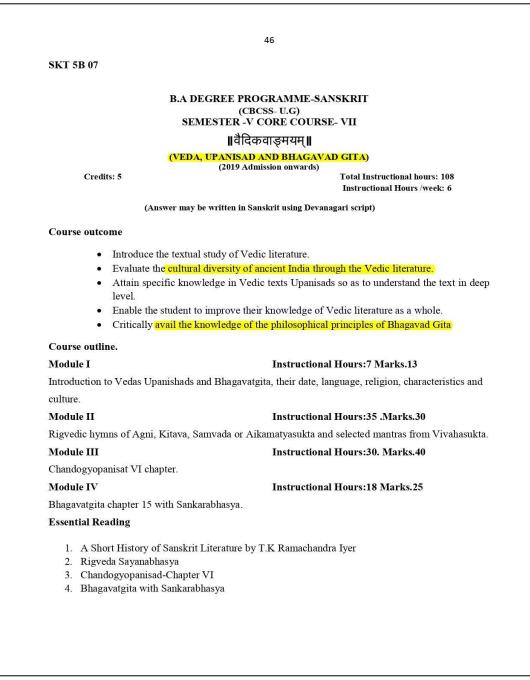
The college offers undergraduate programmes in Sanskrit and History to foster a deeper understanding India's cultural and scientific heritage among students.



The**Department of Sanskrit** plays a pivotal role in propagate the value education based on Indian culture and heritage, with a curriculum that encompasses various subjects such as Nitisatakam, Bhagavad Gita, Upanishads, and Arthashastra. Through rigorous study and scholarly discourse, students in the department engage with these foundational texts, exploring their relevance in the modern context. In addition to academic pursuits, the department actively fosters a vibrant cultural and intellectual environment through various extracurricular activities. The department annually organizes various activities celebrating events like Gurupurnima Day and Ramayanamasam, deeply rooted in Indian culture and heritage. Students actively participate by creating videos and delivering seminars, enriching their understanding band appreciation of our cultural legacy.The outreach programs named Gitava iandRamakathasudha serve as platforms to propagate Indian culture and its Manaampatta Palakkad Dist

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rich heritage to society through the students of the college.Additionally, the department offers certificate courses focusing on Bhagavad Gita and Indian astronomy, enriching students' knowledge of our rich cultural and historical heritage. Through these initiatives, the department aims to foster a deeper appreciation and preservation of India's cultural and scientific heritage among students.





16. समवाकारः। 17. व्यायोगः। 18. लास्याड्गानि। 19. अर्थौपक्षेपकाः। 20. अर्थप्रकाराः। 21. नान्दि। 22. प्रहसनं। 23. वृत्तयः।

III. द्वयोः उपन्यासरूपेण उत्तरं लिखत।

Write essays on any two- carries 10 marks each (2 Out of 4) 2X10=20

24. नाटकलक्षणंसविस्तरंव्याख्यात।

25. प्रतिमुखसन्देरडगानिलक्षणयुक्तंविशदयत।

26. प्रकरणंलक्षणयुक्तंविशदयत।

27. विश्वनाथमतेमुखसन्देरड्गानिवर्णयत।

SKT 6B 13

B.A. DEGREE PROGRAMME SANSKRIT (CBCSS-U.G) SEMESTER - VI CORE COURSE - XIII

||सांख्यकारिका वेदान्तसारः च

(SANKHYA AND VEDANTA) (2019 Admission onwards)

Texts: Sankhyakarika &Vedantasara

Credits: 4

Total Instructional hours: 90 Instructional hours per week: 5

Answer may be written in Sanskrit using Devanagari script

Course Outcome

- Understand the Indian schools of philosophy through the textual study.
- Avail the indepth knowledge in Sankhya and Vedanta school of philosophy
- Understand the concepts of theism and metaphysical approaches of two main streams of Indian philosophy.
- Evaluate ancient Indian concepts with modern perspectives of knowledge.
- Critically analyse the epistomological discourses in ancient India through the textual study.

Course outline

Module I

Instructional hours: 10, Maximum Marks 10

Introduction of the origin and development of Philosophical thought in India Various schools ofthought.



SKT 1A 07 (1)

B.A/B. Sc DEGREE PROGAMME SANSKRIT (CBCSS –U.G)

SEMESTER-I COMMON COURSE- VII

संस्कृतसाहित्यसमीक्षा-1

(KAVYA LITERATURE AND APPLIED GRAMMAR) (2019 Admission onwards)

Texts: Raghuvamsa and Nitisataka

Credits: 4

Total Instructional hours: 72 Instructional hours per week: 4

(Answer may be written in Sanskrit, English or in Malayalam. In writing Sanskrit, Devanagari script should be used.)

Course Outcome:

- Attain general awareness of Sanskrit Kavya Literature
- Evaluate the Sanskrit Kavya Literature, its origin and development.
- Understand the poetic genius of Kalidasa.
- Familiarize with the Sanskrit Mahakavya style in detail through the study of Raghuvamsa.
- Understand the tradition of Sanskrit Lyrics.
- Cultivate moral values among students through the study of Subhashitas.
- Understand the basic principles of grammar.

Course Outline

Module – I

Instructional hours: 12, Maximum marks: 10

Origin and development of kavya literature, characteristics of Mahakavyas, Pancamahakvyas, Khandakavyas (erotic and devotional).

Essential Reading: -

A Short History of Sanskrit Literature by T.K Ramachandra Iyer, (pages-64 to 84, 92-103)

Module – II

Instructional hours: 30, Maximum marks: 40

Kalidasa literature - Poetic style and excellence of Kalidasa, works of Kalidasa.

Essential Reading: -

Raghuvamsa of Kalidasa Canto I- Verses 1 to 45.

Module – III

Instructional hours: 20, Maximum marks: 20

Subhashitas- Characteristics of Subhashitas and Major authors

Essential Reading:-

Bhartrhari's Nitisataka selected 20 verses (appended here with)



SKT 6B 14

BA DEGREE PROGRAMME SANSKRIT (CBCSS-U.G) SEMESTER VI CORE COURSE- XII

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∥संंस्कृति-परिस्थितिपठनम्∥

(CULTURAL AND ENVIRONMENTAL STUDIES IN SANSKRIT) (2019 Admission onwards)

Credits: 4

Total Instructional hours: 90 Instructional hours /week: 5

(Answers may be written either in Sanskrit or in English. For Sanskrit Devanagari script should be used.)

Course Outcome

- Re-integrating Indian culture in the light of modern knowledge.
- Understanding ancient environmental science
- · Comparing environmental awareness of the modern and the ancient society
- · Understanding and appreciating currents of world thought.
- Analyzing the ancient Indian environmental principles through literature.

Course Outline

 Module I
 Instructional hours: 15, Marks: 10

 Indian Culture - Indus Valley, Harappan Culture, Vedic Culture.

Module IIInstructional hours: 40, Marks: 35Kusumalatadhyaya (29th Chapter) in Brhatsamhita of Varahamihira

Module IIIInstructional hours: 35, Marks: 35Vrksayurvedadhyaya (55th Chapter) in Brhatsamhita of Varahamihira (first 15 verses)

Essential Reading

- 1. The wonder that was India by A.L. Basham (Chapters I & II).
- 2. The discovery of India by Jawaharlal Nehru (Chapter IV).
- 3. Brhatsamhita of Varahamihira
- 4. Environmental awareness in Sanskrit- V.N Jha
- 5. Indian Scientific Traditions -edited by Dr. NVP Unithiri.

Additional Reading

- 1. Cultural Heritage of India Vol. I to III
- 2. Indian Heritage Dr. V. Raghavan.
- 3. The wonder that was India by A.L. Basham



Syllabus on Value education based on Indian Culture and Heritage

7

Gurupurnima Celebration





Gurupurnima quotes in front of the department





Wishes to Gurus by giving handmade cards with Guruvandana Slokas





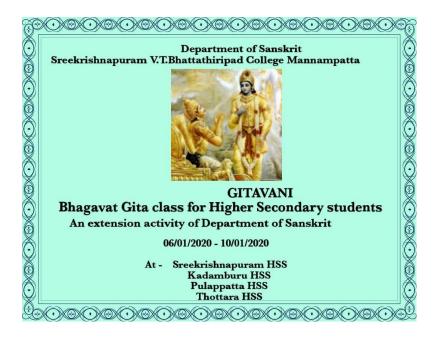
Wishing Cards made by students in the year 2022-23



Gurupurnima Day Celebration 2023-24 Ramayanamasa Celebration

Link for a video presentation by Shahana M. T. on the topic Versions of Ramayana' in the year 2020-21 -<u>https://youtu.be/7mBYVPNIU1U?si=H-TEvkW9l8YWMoxu</u>





Outreach Programme GITAVANI



Gitavani atVellinezhi HSS in the year 2019-20





Gitavani at Sreekrishnapuram HSS in the year 2019-20







Ramakathasudha at Vellinezzhi HSS in the year 2022-2023





Department of History

The Department of History serves as a cornerstone of the college, preserving cultural heritage and fostering critical thinking. They equip students with a comprehensive understanding of past events, enabling them to analyze, interpret, and apply historical knowledge to contemporary challenges and future aspirations. The syllabusprimarily aims at introducing the historical knowledge in wider range so as to equip the students with better understanding of society and historical process. It also aims at exposing the spirit of the research, analysis, criticism, innovation and invention among the students.





Course Category: Core Course -14 No. of Credits: 4 No. of Contact Hours: 5 Hours per week

> (Topics should be studied in relation to the core theme; Indian Heritage and Plurality of Cultures)

Course Outcomes

CO1. Realise the diverse nature of Indian culture

- CO2. Involve in nation building process with an understanding on multicultural system of the country
- CO3. Realise the values and ideologies of secular movements and ideologies of the Country

Module I: Plurality and the elements of dissent in Ancient India

- ▲ Pluralism; definition and scope-Monism- Coercive singular
- ▲ Multiculturalism in the formation of Early India- the concept of VasudaivaKudumbakamthe idea of Tatwamasi
- Cultural confluence in Buddhism and Jainism
- Ashoka Dhamma and setting of social norms; principle of tolerance and environmental concerns
- Dissent and protest to existing knowledge and philosophy; Ajitha Kesakambali and Indian materialism- Lokayatas

Essential readings

Romila Thapar. Early India from the Origins to AD 1300

Tony Joseph. Early Indians: The Story of Our Ancestors and Where We Came From

Asok Vajpeyi (ed.). India Dissents: 3000 years of Difference, Doubt and Agreement

Yuval Noah Harari. Sapience: A Brief History of Humankind

Vijaya Ramaswamy. Devotion and Dissent in Indian History

References

BA History 2019 onwards



HIS5D01 HERITAGE STUDIES

Module I INTRODUCING HERITAGE STUDIES

Meaning and Definition of Heritage

Types of Heritage - Natural and Cultural - Tangible and Intangible

Conservation of Heritage – Archaeology – Museology – Archives – Folklore – Fine Arts

Cultural Tourism

Module II HERITAGE AND LAW

Law against Vandalism and Plunder Archaeological Survey of India

Rescue and salvage Archaeology

International Organisation for Preserving Heritage- Role of UNESCO – ICOMOS – ICOM- ICCROM – State Departments- International Organisations – Smuggling and Antiquities

Module III INDIAN HERITAGE

Indian Heritage defined – Perspectives from Above and Perspectives from Below – Locating Folk and Tribal Culture

Module IV HERITAGE DESTINATIONS OF INDIA

Selected World Heritage Monuments of India – Ajanta – Ellora – Taj Mahal – Badami – Fatehpur Sikri – Sanchi – Mahabalipuram and Hampi

Pilgrim Centres

Archaeological Sites – Nagarjuni Konda – Lothal – Arikamedu – Bhimbetka – Edakkal – Pattanam

Important Museums of India

Heritage Destinations of Kerala – Natural Heritage – Bekal Fort – Jain Temp's Sulthan Bathery – Palakkad Fort – Jewish Synagogue ,Mattanchery – Dutch Pal Mural Paintings of Siva Temple, Kottakkal

Book list Module I:



1.	Henry Cleere (ed.), Approaches to Archaeological Heritage			
2.	S P Gupta, Cultural Tourism			
Modu	ile II			
1.	. Henry Cleere (ed.), Approaches to Archaeological Heritage			
2.	H Sarkar, Museums and Protection of Monuments and Antiquities in India			
3.	UNESCO; Museums and Monuments - Organisation of Museums: Practic			
	Advise			
4.	Michael A Fopp, Managing Museums and Galleries			
Modu	ile III			
1.	. UNESCO; Museums and Monuments – Organisation of Museums: Practic Advise			
2.	Michael A Fopp, Managing Museums and Galleries			
Modu	ile IV			
1.	Rajan Gurukkal and M R Raghava Varier (ed.), Cultural History of Kerala, Vol.I			
2.	A Sreedhara Menon, Cultural Heritage of Kerala			

Open Course Syllabus of History (2019)

The Department of History organizes programs and initiatives focused on transgender issues and human rights on regular basis.



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Seminar on Gender Identity and Transgender Issues







Seminar on Gender Identity and Transgender Issues



Vaikhari: Centre for Research in Kerala Heritage

The Centre was established at the college in the year 2019 to protect and promote indigenous knowledge of Palakkad, Kerala. Its goal is to preserve local traditions which align with the Indian Knowledge System to promote and preserve the practices of Indigenous communities. The center adheres to the mission of the college, aiming to propagate value education rooted in Indian culture and heritage. The UGC Stride Component 1 Project is a result of the Centre's persistent promotion efforts.

The college embarked on a significant endeavor by undertaking a project under the UGC STRIDE Component 1, focusing on the topic "Vedic Education System in Kerala - A Comprehensive, Scientific and Interdisciplinary Analysis." This project is deeply rooted in our commitment to preserving and promoting Indian culture and heritage, particularly through the lens of the Vedic education system.

The UGC Stride Component 1 Project focuses on preserving and promoting Indian culture and heritage, particularly the Vedic education system. Under this project, the college has organized a series of activities in collaboration with traditional institutions to bring authentic Vedic educational practices and philosophies into contemporary settings.





Chief Guest

Prof. Dr. M. K. Javaraj (Hon. Vice Chancellor, University of Calicut)

note Speaker

Dr.AsmundAamaas, Associate Professor (Faculty of Humanities Sports and Educational Science, Department of Culture, Religion and Social Studies, Campus Notodden, University of South Eastern Norwey) Prof. Sanjeev Sonawane (Pro-Vice Chancellor, Savitribai Phule Pune University, Pune.)

Dr. Valbhav Jadhav (Assistant Professor in Department of Educati Extension, Coordinator in School of Open Learning and Coordinator of School of Education, Savitribai Phule Pune University, Pune.)

Dr.SankaranarayananPaleeri (Assistant Professor and Head, Department of Social Sciences Education, N.S.S. Training College, Ottapalam, Palakkad, Kerala.)

Dr. K S Sajan (Assistant Professor of Education, N.S.S. Training College, Ottapalam, Palakkad, Kerala.)

Chief Patrons

Sri. N. Vijayan Namboothiri (Chairman, SreeSankaraTrust,

r, Kerala.) Sri. Brigesh Pattassery (Secretary, SreeSankaraTrust, Perumbavoor, Kerala.)

Dr. Jayan Erancheri Illam (Principal, Sreekrishnapuram V. T. Bhatt thiripad College.)

ing Committee, UGC STRIDE COMPONENT -1 Prof. Dr. P.K. Radhakrishnan (Former Vice-Chancellor, University of Kerala (UGC Nominee)

Dr. P. C. Muraleemadhavan (Head, Department of Sahitya (Retd.). Central Sanskrit University, Guruvayoor Campus, Kerala (President Awardee).

Dr. C. Rajendran (Professor, Department of Sanskrit (Retd.), f Calicut Dr. C. M. Neelakandhan (Former Academic Director, Kerala

Kala andalam Deemed University for Art and Culture.)

Dr. Ampili Aravind (Principal, N.S.S. Training College)

Dr. Raveendran Namboothiri (Director, Veda Srauta Gurukulam, Naras Mana, Edappal, Kerala.

Advisor

Prof. Haridas P (Associate Professor and Head, Department of tics & PTA Se cretary)

Dr. Saritha Namboodiri (Associate Professor and Head, Department of Computer Science & IQAC Co-ordinator)
About the Institution

Sreekrishnapuram V. T.Bhattathiripad College is under the management of SreeSankara Sreekrisinaapuram V. I.Bhattaminipad College is under the management of Sreesinaari Trust started functioning in December1982, affiliated to the University of Calicut. The col-lege is named after V. T.Bhattathiripad who is acknowledged as one of the pioneers of social revolution in Kerala. The college is located in a rural area and it aimed at promoting higher education to the rural and backward regions of Palakkad District. It has three post graduate course and six undergraduate courses only andhas been releatlessly pursuing its mission of propagating value-based education that relies on Indian culture and heritage to the student community and the society at large.

UGC STRIDE COMPONENT-1

STRIDE (Scheme for Trans Disciplinary Research in India's Developing Economy) has been launched by the UGC in 2019 to identify young talent, strengthen research culture and to build the capacity in young talents in humanistics and human science. The scheme is ex-pected to enhance the quality and excellence in research. Component 1 of this scheme con-centrates on research culture and human resource development in collegos and universities. STRIDE Component applied by us was approved by the UGC on the topic Vedic Education System in Kerala – A Comprehensive, Scientific and Interdisciplinary Analysis. The study proposes to discover the salient features of the Vedic education system in Kerala by exploring its amazing vitality, persistence, intellectual impact, oral strength as well its textual and performance aspects. The research aims toreinstate is relevance and im-portance in the present scenario with regard to philosophical and practical aspects of the system. About the conference

About the conference Philosophy determines the aspects of education such as aims, curriculum and teachers' role, content, discipline and method of teaching. The Three-Day International Conference on PHILOSOPHY OF EDUCATION IN INDLA TIRROUCH ACES - FROM PREINISTORIC TO PRESENT TIME is being organised by UGC STRIDE Component on 27th February to1atMarch, 2023 with the intention that it may contribute a step ahead in the research area of education philosophy.

Theme

Transformation of Education Philosophy through Ages:
 Ancient
 Medieval

- Medieval
 Pre-Independence
 Post-Independence
 Post-Independence
 Contemporary
 Philosophy of education reflected in Vedic texts
 Philosophy of education in Vedic tream and other streams
 Nikosophy of education of great thinkers in India
 Education philosophy in Kerala.





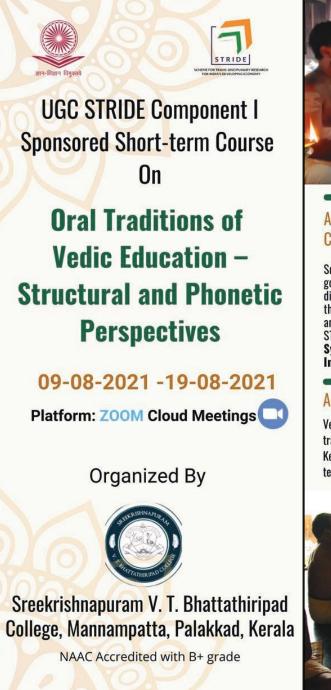






UGC STRIDE International Conference 2022-2023







About The College and UGC STRIDE Component 1

Sreekrishnapuram V. T. Bhattathiripad College is a government aided arts and science college in Palakkad district of Kerala affiliated to the university of Calicut. In the year 2019 the college got approval from UGC to execute an interdisciplinary research project under scheme of UGC STRIDE Component 1 on the topic Vedic Education System in Kerala - A Comprehensive Scientific and Interdisciplinary Analysis.

Aim of The Course

Vedas are learned through the chanting tradition of oral transmission and that's how the name sruti came in to being. Kerala followed a unique and systematic method of Vedic teaching and learning system in several aspects.



UGC STRIDE Short term course in the year 2021-2022





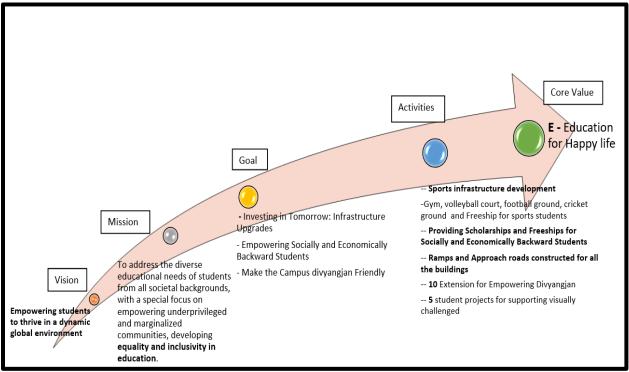


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Mission 2 - To address the diverse educational needs of students from all societal backgrounds, with a special focus on empowering underprivileged and marginalized communities, developing equality and inclusivity in education.



Core Value - Education forlife

Empowering Socially and Economically Backward Students

The college provides scholarships and free ships to students to economically backward students. Central and State Government scholarships include:

A. Central Government Scholarships

1. Central Sector Scheme of Scholarship for College Students - In the assessment period, 20 students were received the scholarship.

2. Post Matric Scholarships Scheme for Minorities - In the assessment period, 32 students were received the scholarship.

3. Post Matric Scholarships for Students with Disabilities - In the assessment period, 8 students were received the scholarship.

4. Sanskrit Scholarship - In the assessment period, 50 students were received the scholarship.

B. State Government Scholarships

1. State Merit Scholarship - In the assessment period, 4 students were received the

sholarship.

Palakkad Dist Pin-678 633

2. So varna Jubilee Scholarship - In the assessment period, In the assessment period, 45 Manuampatituce) ts were received the scholarship.

3. Chief Minister's Scholarship Award – In the assessment period, 4 students were received the scholarship.

4. Vidya Samunnathi Scholarship - In the assessment period, 2 students were received the scholarship.

5. University Merit Scholarship – In the assessment period, 19 students were received the scholarship.

Make the Campus Friendly for Differently-Abled Students

Sreekrishnapuram V T Bhattathiripad College has upheld an inclusive policy ever since its inception, treating with equal respect and dignity, the staff and students from all faiths and sections of society. The college has implemented a policy to ensure inclusivity for Divyangjan.

The College takes following measures for inclusiveness:

- The admission process for specially challenged students adheres to the guidelines set by the University of Calicut.
- The scribe facility for examinations is provided to individuals who are visually impaired as well as those with motor disabilities.
- Wheelchair facilities will be provided upon request.
- Faculty members offer individualized attention and scaffolding to students in order to support their academic endeavors.
- The college assesses the educational requirements of disabled students, determines the appropriate assistive devices, and arranges for their procurement.
- The college commemorates significant occasions pertaining to disabilities, including the International Day of Persons with Disabilities.
- The college is prioritizing the fulfillment of their requirements and actively engaging in project work that is directly pertinent to those requirements.





Wheel Chair for Disabled Student



Ramp and Rail





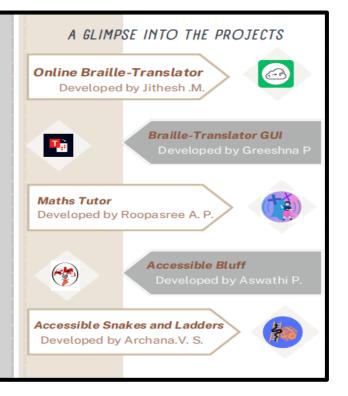
Scribe

Students of MSc Computer Science, Sreekrishnapuram V. T. BhattathiripadCollege have developed games and apps for differently abled students as part of their Final year project work in association with ZENDALONA, an organization providing accessibility solutions for visually impaired persons.

ABOUT THIS PROGRAMME

Students of M.Sc. Computer Science, Department of Computer Science, Sreekrishnapuram VT Bhattathiripad College have developed games and apps for differently abled students as part of their final year Project work in association with ZENDALONA, an organization providing accessibility solutions for the differently abled people. Projects were developed with aim of promoting and inculcating FOSS culture among students. These games are primarily audio- based, that enhance the mathematical and cognitive skills of visually challenged students.

We are planning to organize the launch of these software tools on 20th December 2023, 9.30 AM at Sreekrishnapuram V T Bhattathiripad College. We are delighted to invite you to the official launch event. This exciting milestone represents months of hard work and innovations by our students and we would be honored to have you join us in celebrating its successful completion.



Women Empowerment

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1. The Women's Development Cell (WDC) is established in the college aims at empowering and orienting women to recognize their true potential and to help them attain their own stand in a competing world. Its goal is the overall development in all spheres of their life. The targeted group includes all UG, PG students, women from nearby community and primary and secondary level students of nearby schools. The main objective of WDC is to empower Women in all aspects and to look into the grievances of Women, especially in cases of gender discrimination and also

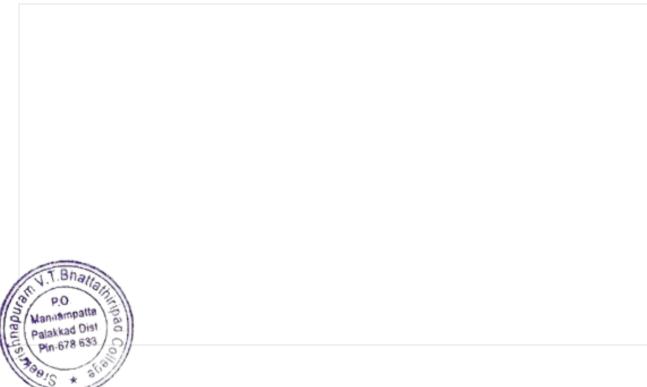
Objectives of WDC:

- To promote general well-being of female students and teaching and non-teaching women staff of the Collage.
- To create awareness about health and hygiene among girl students.
- To create social awareness about the problems of women in general and gender discrimination in particular by means of programs like lectures, workshops and seminars.
- To develop skills among the girl students by means of workshops and training programs for their overall personality development as well as for the encouragement of self-reliance among them.
- To create legal awareness among women by informing about Women Welfare Laws.
- To encourage participation of NGOs working in the area of women's development in the activities of the Cell.

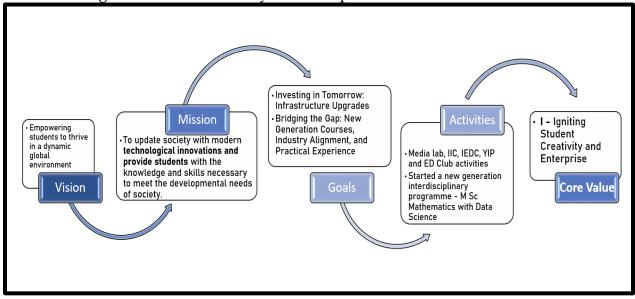








Mission 3 - To update society with modern technological innovations and provide students with the knowledge and skills necessary to meet the developmental needs of society.



Core Value-Ignite Student Creativity and enterprise

The college promotes trans-disciplinary, interdisciplinary Culture. UGC STRIDE Component 1 which supports Trans-disciplinary Research Project was awarded to the college. To stay at the forefront of modern technological innovation, the institution offers interdisciplinary and multidisciplinary courses, such as the MSc in Computer Science with interdisciplinary Courses including *Bioinformatics*.



CSS3E01d - BIOINFORMATICS Objectives: Expose students to the popular genomic and proteomic databases and to impart knowledge in processing and analysing genomic data and to introduce advanced topics in Bioinformatics. **Course Outcome** CO1: Understand the basic concepts of Bioinformatics and its significance in Biological data analysis. CO2: Demonstrate various techniques, algorithms and tools employed in computational biology. CO3: Identify steps in sequence alignment. CO4: Analyze various databases and tools on nucleic acids and protein. CO5: Understand the types of data found at NCBI and EBI resources. **Course Outline** Unit I: Bioinformatics - introduction to - nature and scope of computational biology and Bioinformatics. Cells - prokaryotes and eukaryotes - DNA double helix - central dogma - RNA, Amino acids, Proteins - string representations. A glossary of Bioinformatics terms - file format for bio-molecular sequences, sequence alignment, phylogeny, gene finding, microarray analysis, homology and evolutionary relationships. Unit II: Basic algorithms in Computational Biology - exhaustive search methods and their applications in Computational Biology - string matching algorithms. Motif finding - tandem repeats - concept of dynamic programming - graph algorithms - clustering algorithms. Unit III: Sequence alignment - pair-wise sequence alignment, need of scoring schemes penalizing gaps, scoring matrices for amino acid sequence alignment, PAM probability matrix and log odds matrix, BLOSUM, Dot-plot visualization, Needleman- Wunsch algorithm- effective of scoring schemes - evalues - BLAST and FASTA, Smith - Waterman algorithm for alignment. Unit IV: Multiple sequence alignment - sequence alignment using dynamic programming, N dimensional dynamic programming. Tools for MSA - muscle and T-Coffee. Phylogenetic algorithms - evaluation of phylogenetic trees, significance. Unit V: Introduction to the major resources - NCBI, EBI and ExPASy - nucleic acid. sequence databases - GenBank, EMBL, DDBJ - Protein sequence databases - SWISS- PROT, TrEMBL, PIR_PSD - genome databases at NCBI, EBI, TIGR, SANGER - procedures to access these

UNIVERSITY OF CALICUT

BIO-INFORMATICS Elective course syllabus

databases and to make use of the tools available.



File No.HEDN-B3/207/2020-HEDN





GOVERNMENT OF KERALA

Abstract

Higher Education Department – Administrative sanction for starting new courses in Government and Aided Colleges affiliated to Kerala, Mahatma Gandhi, Calicut and Kannur Universities during the academic year 2020-21 – Accorded – Orders issued.

HIGHER EDUCATION (B) DEPARTMENT

G.O.(Ms)No.150/2021/HEDN Dated, Thiruvananthapuram, 25/02/2021

Read 1 G.O. (Ms.) No. 389/2020/HEDN dated 05/11/2020

2 G.O.(Ms.) No. 473/2020/HEDN dated 30/12/2020

3 G.O.(Ms.) No. 112/2021/HEDN dated 17/02/2021

<u>ORDER</u>

Administrative Sanction is accorded for the following Government and Aided Colleges affiliated to Kerala, Mahatma Gandhi, Calicut and Kannur Universities for starting the courses mentioned against their names, during the academic year 2020-21.

Government Colleges

Sl. No.	conege	University	Course Sanctioned
1.	CKG Memorial Govt. College, Perambra	Calicut	BSc Applied Statistics with Data Science
2	Govt. College, Mokeri	Calicut	BSc Econometrics and Data Management
3.	Govt. College, Malappuram		M.Sc. Statistics with Applied Algorithms, Statistical Techniques in Data Mining, Analysis of Multi-type & Big Data, Statistical Modelling, Non- parametric Statistics
4.	C		BSc Physics (Mathematics and Machine Learning)



File No.HE DN-B 3/207/2020-HE DN

5.	BJM Govt. College,	Kerala	MSc Zoolgy with Specialization in Biosystematics and	
	Chavara, Kollam		Biodiversity	
	Govt. Sanskrit	Mahatma	B Yog	
	College, Tripunithura	Gandhi		

Aided Colleges

SI. No.	College	University	Course Sanctioned
1.	St. Aloysius College, Elthuruth	Calicut	BSc Botany & Computational (Double Main)
2.	SKVTB College, Mannampatta	Calicut	MSc Mathematics - Data Science / Machine Learning / Artificial Intelligence
3.	Pazhassi Raja College, Pulppally	Calicut	BSc Econometrics and Data Management
4.	St. Xavier's College, Kothavara, Vaikom	Mahatma Gandhi	BSc Food Science and Quality Control
5.	Nirmala College, Muvattupuzha	Mahatma Gandhi	Integrated MSc Programme in Computer Science - Data Science
6.	Kuriakose Gregorios College, Pampady	Mahatma Gandhi	BSc Food Science and Quality Control
7.	Marthoma College for Women, Perumbavoor	Mahatma Gandhi	Integrated MSc Programme in Basic Sciences - Physics
8.	Payyannur College	Kannur	MSc Plant Science with Bioinformatics
9.	Marymatha Arts and Science College, Mananthavady	Kannur	BA Social Science - Economics (Complementary - History, Political Science)
10	. Milad - E- Sherief Memorial College, Kayamkulam, Alappuzha	Kerala	BA Communicative English (in place of 'MSc Statistics with Specialization in Data Analytics' sanctioned vide GO read as 3 rd paper above)

No post creation shall be allowed for these courses till 2025. Classes should be run with guest faculties only.

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MSc Mathematics with Data Science

One notable increment in the infrastructure facilities is the establishment of a Media Room. Media Room serves as a hub for creating and disseminating educational content, fostering creativity, and enhancing digital literacy among the academic community. Furthermore, faculty empowerment programs are regularly conducted, focusing on areas such as MOOC course development and video editing utilizing the resources available in the Media Room. These programs equip faculty members with the skills and tools necessary to create engaging and interactive learning experiences for students, leveraging modern technologies effectively.

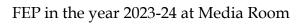


FEP in the year 2023-24 at Media Room







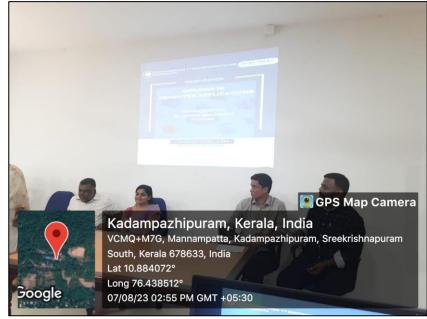




The Department of Computer Science actively organizes a variety of activities aimed at fostering technological awareness among students and faculty alike. The department organized a project on free and open software development for visually challenged. Coursera for Campus was initiated in the college during Covid Pandemic period. The college access to more than 3,600 high-quality courses to enhance their core curricula and supplemental learning to students, and deliver lifelong learning to their alumni, faculty, and staff. It provide current students with job-relevant learning and credential.



A Class on Free Open Source Software to PG Students in Computer Science in 2022-23

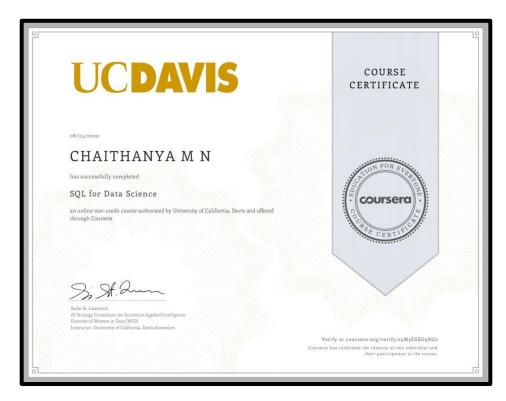








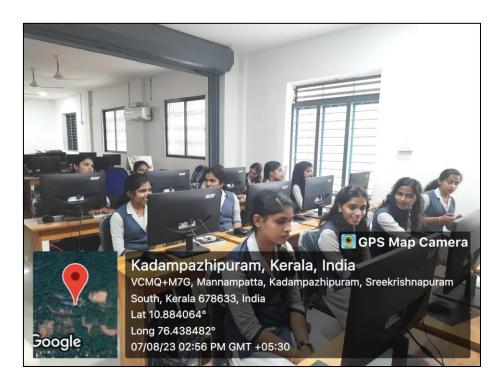




Course on Coursera in the year 2019-2020



A Diploma Course in Computer Application is conducted by the college in association with KELTRON. Work Readiness Programmes, Capacity Building and Life skill initiatives are regularly conducted for the students.



Professional course DCA Class for students in the year 2023-2024



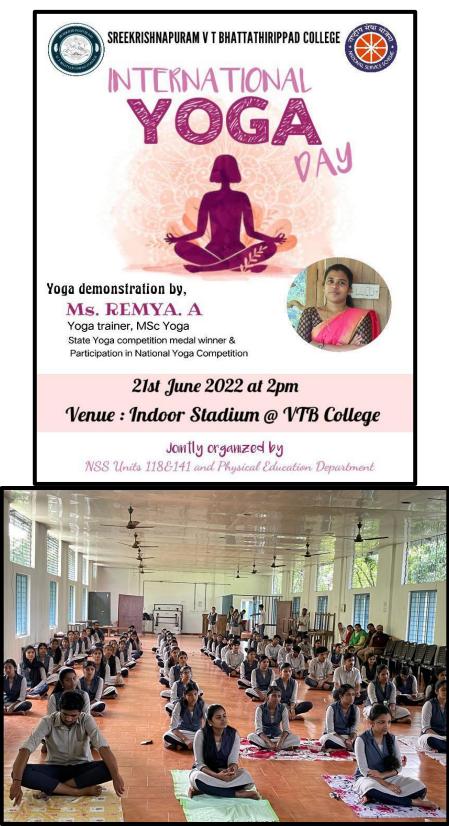






Training Programme by ASAP in the year 2023-2024







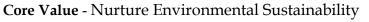
ife Skill Programme – International Yoga day celebration in the year 2022-2023

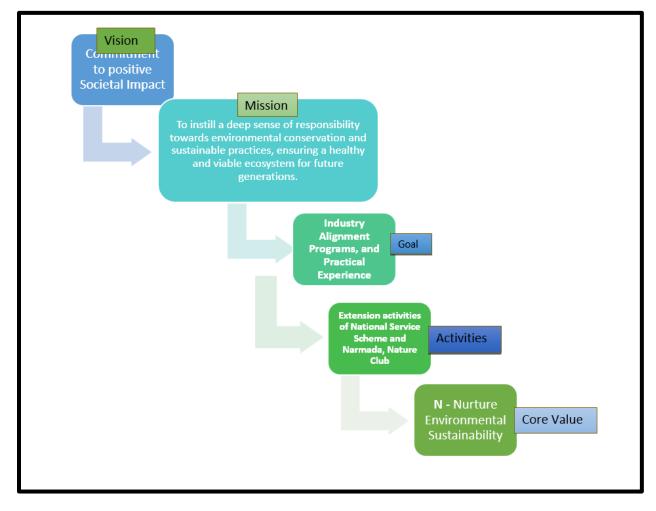




Life Skill Programme – Workshop on movement techniques in the year 2022-2023

P.O. Manuampatta Palakkad Dist Pin-678 633 **Mission 4** - To instill a deep sense of responsibility towards environmental conservation and sustainable practices, ensuring a healthy and viable ecosystem for future generations.





The institution takes great care to preserve and maintain the natural environment, especially in the hill area where it is situated. The construction of buildings is meticulously planned without disturbing the natural landscape and minimizing environmental impact.





Protection of Rocks



Manmade Forest

In collaboration with the Sreekrishnapuram GramaPanchayathu, the institution's Nature Club has established and maintains a **Food Forest**. This initiative not only contributes to **biodiversity conservation** but also provides a sustainable source of food and serves as an educational resource for the community.







Food Forest of Sreekrishnapuram V T Bhattathitipad College





Additionally, an Amaravatika, or sacred grove, is safeguarded by the National Service Scheme (NSS) and the Nature Club. The Nature Club regularly organizes various extension activities aimed at raising awareness among students about agriculture and environmental conservation. These activities provide students with hands-on experiences and knowledge about sustainable agricultural practices, fostering a deeper understanding of their connection to the natural world.





Activity by NSS and Nature Club



NATURE CAMP ERAVIKULAM NATIONAL PARK:

Date of Work	Place of Work	No. of Volunteers involved
26 th Feb to 28 th Feb 2022	Eravikulam National Park	-40

ACTION PHOTOS



Cleaning at National Park



TRUCKING IN DHONI WATER FALL:

n order to celebrate the bio-diversity day on 22.05.2022, there was a program organized by the Kerala Social Forestry Department and as part of the programme, the NSS Volunteers participated and the programme was throwing the seed balls (mud balls which contains seeds of various trees) in the forest.Also we have participated in the Trucking at Dhoni Water Fall.

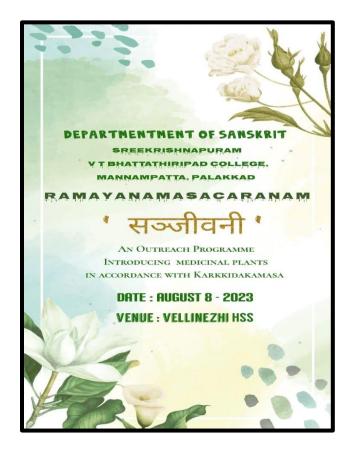
Date of Work	Place of Work	No. of Volunteers involved
22.05.2022	Dhoni Forest	25



Nature Club Activity



The Department of Sanskrit organized an outreach program named "Sanjivani" on the topic of "Introducing Medicinal Plants in Accordance with Karkkidaka Masam" for Higher Secondary students at Vellinezhi HSS. In Kerala, the month of Karkkidaka (Karkkidakamasa) is traditionally considered a period for rejuvenation and wellness. The students of SVTB College presented the significance of ancient medicinal plants such as 'Mukkutti' and 'Karuka', etc. and the importance of using 'Aushadhakkanji' (Medicinal rice soup) as a traditional remedy known for its medicinal benefits. The students' presentations underscored the importance of these traditional practices in promoting health and well-being, drawing on the rich heritage of Kerala's medicinal knowledge.



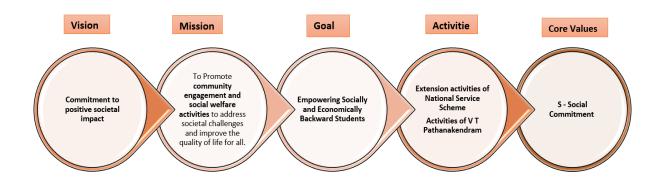




Presentation on Ancient Medicinal plants at Vellinezhi HSS in the year 2023-24

Mission 5 - To promote community engagement and social welfare activities to address societal challenges and improve the quality of life for all.

Core Value - Social Commitment



At Sreekrishnapuram V. T. Bhattathiripad College, social responsibility is a core focus, with the National Service Scheme (NSS) playing a pivotal role in various communityoriented initiatives. Through active collaboration with organizations such as Kanivu Palliative Care Unit and Sreekrishnapuram Gramapanchayathu, NSS undertakes a range of impactful activities aimed at supporting vulnerable groups and promoting social welfare. The following key initiatives are major activities organized by the institution - Support for the Blind Union, Assistance to Special Schools and Disabled Children, Help for the Mentally Retarded, Campaigns Against Drug Abuse, Distributing Necessaries, Blood donation.





Help for the Mentally Retarded People in the year 2020-2021



Street Drama Against Drugs in the year 2019-2020



Street Drama Against Drugs in the year 2019-2020



Blood Donation

<u>https://youtu.be/CvnTKkqq07M?si=Mod82jZUq8CQ6NIC</u> – Short Film against Drugs in the year 2019-2020





Donating Necessaries to Flood suffered people Wayanad in the year 2019-2020

<u>https://youtu.be/NBr_KCrEGo0</u> - 'KOODE'Documentary on Buds School Kadampazhipuram in the year 2019-2020









Binna Seshi Sauhrida Sangamam (Children with disability friends union) in the year 2021-2022



Contributing notebooks to Blind Society in the year 2023-2024



Vision

Vision of the college is "Sreekrishnapuram VTB College aspires to be a leading institution of higher learning, recognized for **academic** excellence, innovative research with a commitment to positive societal impact and empowering students to thrive in a dynamic global environment."

Proof for Academic Excellence

The students from the institution are claiming the positions in the examination of University of Calicut.

Sl. No.	Name of Student	Course	Position		
Departn	Department of Economics				
1	Nandana P K	BA Economics with Foreign Trade	3 rd Position		
2	Akshara P A	BA Economics with Foreign Trade	4 th Position		
3	Megha V M	BA Economics with Foreign Trade	5 th Position		
4	Ambili K	BA Economics with Foreign Trade	7 th Position		
5	Binisha CS	BA Economics with Foreign Trade	9 th Position		
Departm	ent of Computer Scie	ence			
1	Archana V S	M. Sc Computer Science	3 rd Position		
Departm	ent of Sanskrit		·		
1	Nandana T	BA Sanskrit Sahitya	6 th Position		
Departm	nent of Mathematics				
1.	Archana T	BSc Mathematics	10 th Position		
2.	Bijitha P	M. Sc Mathematics with Data Science	3 rd Position		
3.	Athira K	M. Sc Mathematics with Data Science	4 th Position		
4.	Biya Jomon	M. Sc Mathematics with Data Science	7 th Position		
5.	Silpa T S	M. Sc Mathematics with Data Science	8 th Position		
6.	Devikrishna K M	M. Sc Mathematics with Data Science	10 th Position		

2022-2023

2021-2022

S	SI.	Name of Student	Course	Position
1	No.			
7.06	Pepar	tment of Economics		
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Balakkad (Dist. a			
Palakkad C Pin-678 6	133/07	/		

1.	Anjana P	BA Economics with Foreign Trade	4 th Position		
2.	Vismaya C	BA Economics with Foreign Trade	5 th Position		
3.	Harikrishnan T	BA Economics with Foreign Trade	9 th Position		
4.	Athulya N	BA Economics with Foreign Trade	10 th Position		
5.	Anjana P	BA Economics with Foreign Trade	4 th Position		
Depar	Department of Computer Science				
1	Shiva Gayathri	M. Sc Computer Science	4 th Position		
2	Vijisha PM	M. Sc Computer Science	9 th Position		
3	Vismaya V	M. Sc Computer Science	10 th Position		
4	Vijisha B V	M. Sc Computer Science	4 th Position		
Depar	Department of Sanskrit				
1	Radhika N	BA Sanskrit Sahitya	2 nd Position		
2	Nair Sangith	BA Sanskrit Sahitya	8 th Position		
	Krishnan				

SI.	Name of Student	Course	Position
No.			
Depa	rtment of Economics		
1	Aswini Balakrishnan	BA Economics with Foreign	1 st Position
		Trade	
Depa	rtment of Computer S	cience	
1	Amrutha K	M.Sc. Computer Science	1 st Position
Depa	rtment of Sanskrit		
1	Uma K S	BA Sanskrit Sahitya	2 nd Position
2	Salini M U	BA Sanskrit Sahitya	8 th Position
Depa	rtment of Mathematic	s	
UG			
1.	Sruthi K S	BSc Mathematics	5 th Position
2.	Ardra K	BSc Mathematics	9 th Position
Deva	rtment of Commerce &	& Management Studies	·

J.T.BI

1.	Shijitha B	M. Com Finance	6 th Position
2.	Arya T	M. Com Finance	14 th Position

2019-2020

Sl. No.	Name of Student	Course	Position		
Departn	Department of Computer Science				
1	Suvarna G	M.Sc. Computer Science	4 th Position		
2	Vishnu K	M.Sc. Computer Science	9 th Position		
3	Krishnapriya K	M.Sc. Computer Science	10 th Position		
Department of Commerce & Management Studies					
1.	Vinaya P	M. Com Finance	1 st Position		

2018-2019

Sl. No.	Name of Student	Course	Position
Departr	nent of Economics		
1	Krishnapriya	BA Economics with Foreign	1 st Position
		Trade	
Departr	nent of Computer Se	cience	
1	Aiswarya	M.Sc. Computer Science	3 rd Position
2	Jincy Joy	M.Sc. Computer Science	6 th Position
3	Surayya A	M.Sc. Computer Science	9 th Position
Department of Commerce and Management Studies			
1	Vismaya P M	BBA	3 rd Position
2	Kavya Das	BBA	12 th Position



0 PRINCIPAL Sreekrishnapuram VI Bhattathiripad College Mannampatta, Palakkad - 678633 .