

## STUDENT CENTRIC METHODS FOLLOWED BY DIFFERENT DEPARTMENTS

### 1. Department of Arabic

Research Department of Arabic strictly believes in student centric strategies in teaching and learning such as experiential learning, participative learning and problem solving methodologies. Students are given opportunities to learn through doing, and involve in activities, which empowers them to apply their theoretical knowledge to practical one. For example in the conversation learning classes, students are divided into groups and assigned situations. Then they are asked to make conversations in Arabic about the topic. In syntax classes students are asked to make sentences as per the structure they learned. Learners are given opportunities to participate in teaching learning process. As part of this seminars, debates and discussions have been incorporated in the syllabus.



### 2. Department of Botany

Department of Botany, Maharaja's College conducts various field works and excursions for the students for better understanding of the nature and there by enriching their knowledge in the subject. These activities will make the students to be more passionate in the field of botany. For students of first B.Sc. Botany, a one day field trip is being conducted to create awareness about the diverse group of plants. This will help them to get a good introduction about the subject.



For the students of third year B.Sc. botany five to seven day long angiosperms taxonomy field work is being conducted. By observing different forest and gardens, students will be able to distinguish different plants and their uses in the field itself. These students also have a one day excursion on ecotourism and ecology, to make them aware about the usefulness of ecotourism in the conservation of natural resources.



The students of first M.Sc. Botany have a two day field work for better understanding of bryophytes, pteridophytes and gymnosperms. These students are also privileged with one day algal collection trip to any of the coastal regions of Kerala.



For second M.Sc. Botany students five to ten days long angiosperm taxonomy field study is being conducted. During these trips these students will be able to observe and collect plants for the herbarium preparation. Herbarium field books are also maintained. The study also provides a chance to observe Alpine and Arid vegetations and ecotypes like Western Ghats and Eastern Ghats.




Also, different climatic regions like temperate and tropical regions are also experienced. These students also visit a biotechnology laboratory and a plant breeding station with Kerala, to understand different components in a laboratory and different programmes associated with it.

### 3. Department of Chemistry

Faculty in the department of Chemistry uses ICT enabled learning which make use of videos and PPTs that help the students to get clear vision of the topic taught. The department conducts workshop for higher secondary and undergraduate students every year. The objective of the programme is to inculcate the spirit of scientific enquiry and analytical thinking in the minds of young students. Classes are handled by UG and PG students of the Chemistry department and ensures the participative learning.

**EASY Chem Lab - 2016**  
**Two day workshop for higher secondary school students**  
**(On 1st and 2<sup>nd</sup> December, 2016)**

*Organised by*



**Post Graduate and Research Department of Chemistry**  
 Maharaja's College, Ernakulam  
 (A Govt. autonomous College, Re-accredited by NAAC at 'A Level', Centre of Excellence under Govt. of Kerala, Recognised by UGC as College with Potential for Excellence)

Dear Madam/Sir/Student,


The Post Graduate and Research Department of Chemistry, Maharaja's College, Ernakulam cordially invites you to participate in the two day's workshop for higher secondary school students "Easy Chem Lab - 2016" scheduled to be conducted on 1<sup>st</sup> and 2<sup>nd</sup> December, 2016.

Understanding Chemistry can only be achieved through systematic study, observation and experimentation. Laboratory work is an essential component of any Chemistry curriculum. It provides a practical experience with the concepts that one has learned in Chemistry theory classes. Acquisition of basic laboratory skills should start at higher secondary level. In this context, we are organizing a two day's training programme for higher secondary students to have a hands-on experience in different analytical techniques. This programme will be handled by our UG & PG students with assistance of faculties. This knowledge sharing programme will benefit both UG&PG students of our college and higher secondary students of your institution.

Coordinators Dr. Suja N R Sri. Rejimon P K	Convener Dr. Anitha I. HoD	Chairman Smt. N L Beena (Principal)
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**EASY CHEM LAB 2017**  
 Two day workshop for undergraduate & higher secondary school students  
**(On 19<sup>th</sup> and 20<sup>th</sup> October 2017)**

*Organised by*



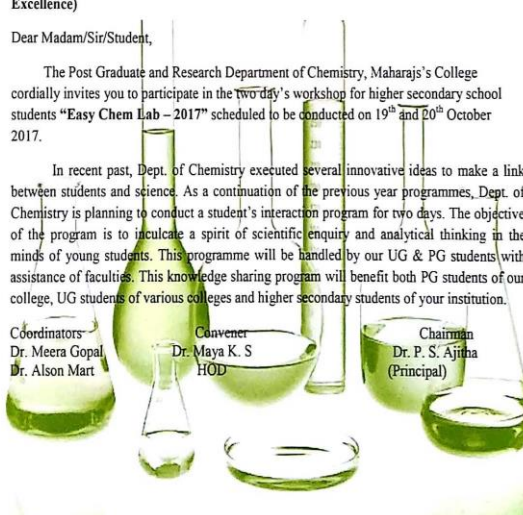
**Post Graduate and Research Department of Chemistry**  
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In recent past, Dept. of Chemistry executed several innovative ideas to make a link between students and science. As a continuation of the previous year programmes, Dept. of Chemistry is planning to conduct a student's interaction program for two days. The objective of the program is to inculcate a spirit of scientific enquiry and analytical thinking in the minds of young students. This programme will be handled by our UG & PG students with assistance of faculties. This knowledge sharing program will benefit both PG students of our college, UG students of various colleges and higher secondary students of your institution.

Coordinators Dr. Meera Gopal Dr. Alson Mart	Convener Dr. Maya K. S HOD	Chairman Dr. P. S. Ajitha (Principal)
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III BSc. Chemistry Model III (Environment and Water Management) students get training in handling various sophisticated instruments during their project at Research institutions like CWRDM, Calicut. These experiences help in enriching their depth regarding the concepts in theory.



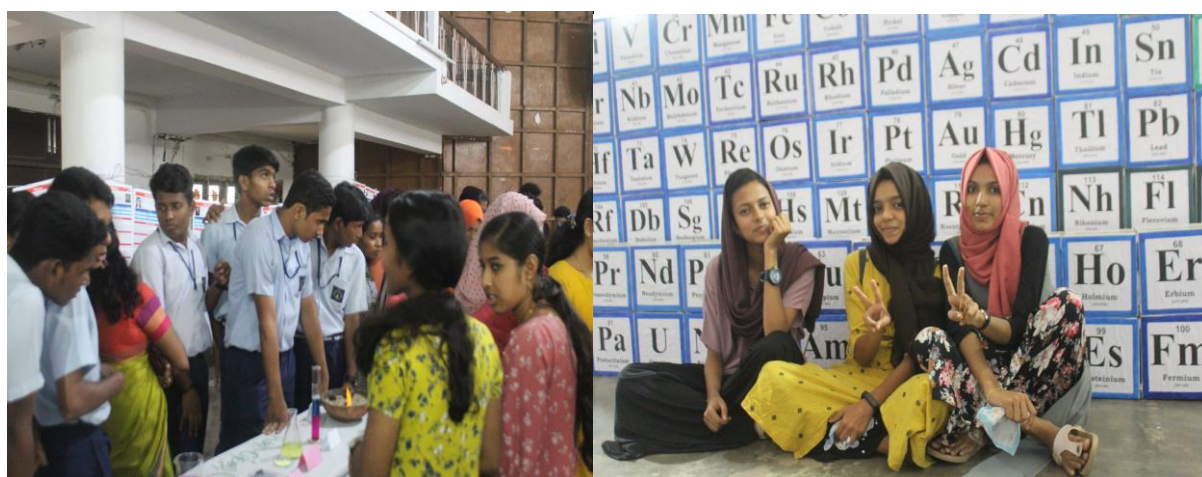
Projects which are mandatory for both UG and PG final year students enhance the learning through problem solving method. Seminars and assignments are done by the learners in each semester and this helps the students to have deep and vast knowledge on the related topic. UGC/CSIR- NET coaching classes are conducted for the PG students in the college and students from nearby colleges. Chemistry association conducts quiz programmes and encourages students to interact with eminent professors and scientists in the field of Chemistry. Lecture series on new and relevant topics by the experts help the PG students to get clear idea of the newly introduced topic in the syllabus. Visits to laboratories with sophisticated instruments for the PG students especially MSc. Analytical Chemistry students are conducted which assist them to understand the working principle of instruments.

During Sasthrayan 22<sup>nd</sup> and 23<sup>rd</sup> of February 2018, the Department of Chemistry offered variety of activities and opened the department for general public for these two days. The purpose of the programme was to generate awareness on the importance of using science for

making the society and to showcases its research outputs and achievements to the general public through this programme.

Science popularisation programmes are conducted for the school students from rural areas in which students of the department do presentations for them, introduces different apparatus, instruments and experiments. Simple quiz and games are also done by the students to make the school children aware of the importance of chemistry in life.

As a part of International Year of Chemistry (IYPT 2019) the Chemistry department played a major role in Science Exhibition 'IYPT Expo-Mendelevium' to convey the importance of Elements in daily life. As a part of celebration of IYPT, Chemistry department conducted 'Luca Quiz' for School and College students in association with 'Sastra Sahitya Parishad'.



#### 4. Department of Commerce

The PG and Research Department of Commerce is committed to ensure the holistic development of the students through a student-centric learning process and suitable

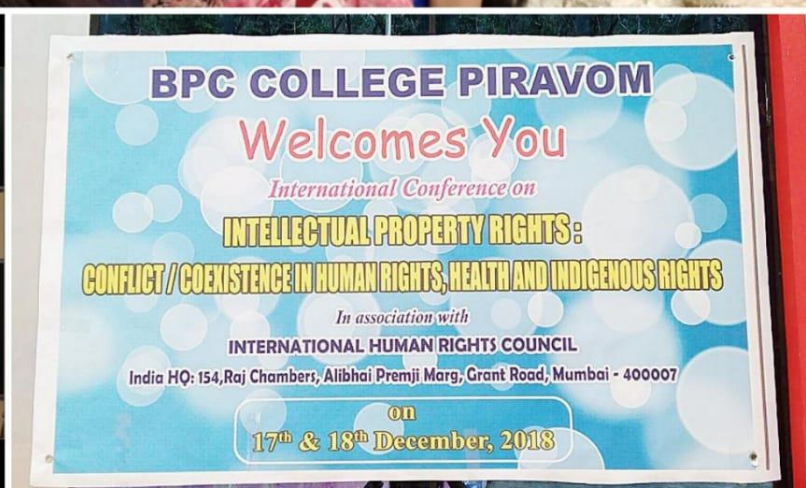
curriculum design. The departments adopt the following strategies to make learning more students-centric and ensure the holistic development of the students:

- Student's Seminar
- Research Projects : The best way to master a subject is by doing projects. Through a project the students not only get a deeper understanding of the subject but also gain hands-on practical experience.
- Lecture Series ,Seminars & Workshops: As part of academic development, department arranges lecture Series and seminars throughout the year on topics of core subjects, Career oriented lectures, recent technologies and research areas.
- Participation in Seminars & Workshops and research paper presentations by students
- Industry visits  
Industry visit is a part of the Education, during which students visit companies and get insight into the internal working environment of the company.
- Assignments
- Computer lab-practical classes for computer application courses (Computerised accounting, DBMS, C, Visual Basic, IT for Business and IT for Office)

Various students from **M.Com. (2017-19)** batch of Maharaja's College, Ernakulam have presented papers in various institutions. The following are the list of students who presented their papers

**Ashitha A.N** and **Harshitha Joy** presented a paper titled '*Financial Performance Analysis of Top Public Sector Banks in India*' in the National Conference on Investment Avenues-Pros and Cons; on 9<sup>th</sup> and 10<sup>th</sup> November 2017 organised by Government College, Tripunithura

**Ashitha A.N** presented a paper titled '*Negligence of People towards IPR*' also **Akhil Raju** and **Ajith A.M** presented a paper titled '*Student's Knowledge of Copyright Infringement*' in two day International Conference on Intellectual Property Rights: Conflicts/Coexistence in Human Rights, Health and Indigenous Rights organised by **Baselios Poullose II Catholicos College, Piravam** on 17<sup>th</sup> and 18<sup>th</sup> December 2018 and got it published



Ashitha A.N presented a paper titled '*Status Quo Bias among Public and the Association with Socio-economic Variables*' in two day International Conference on Capital Markets and Finance organised by the Department of Economics and Centre for Research , **St. Teresa's College (Autonomous) , Ernakulam** on 3<sup>rd</sup> and 4<sup>th</sup> January 2019.

Shemine Babu got her paper "*Validity of winners' curse hypothesis: Evidence from Indian Stock Markets IPOs during 2017-18*" published in Research Review Journals in November 2018.





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## CERTIFICATE OF PUBLICATION

This is to certify that Research Paper/ Article/ Case  
Paper entitled

Validity of Winner's Curse Hypothesis: Evidence from Indian  
Stock Market IPOs during 2017-18

 **Authored By**

Shemine Babu & Vineeth KM (Dr)

has been published in **Volume-4 | Issue-04 | Apr-2019**  
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Chief Editor

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**Sreelaksmi J.** and **Arya S.** presented a paper titled '*Optimism and Mental Accounting bias among Public-Association with Socio-Economic Variables*' also **Aswathy Biju** and **Aswathy Raju** presented a paper titled '*Conservatism and Ambiguity bias among Public-Association with Socio-Economic Variables*' in one day National Seminar on Careers in Financial Market organised by the Department of Commerce, **St. Berchmans College Changanacherry** on 26<sup>th</sup> September 2018.



**Darsana S.** presented a paper titled '*Performance evaluation of Systematic Investment Plans in Top Rated equity oriented Mid-Cap and Small-Cap mutual funds during 2016-2018*' also **Sreelakshmi J.** and **Arya S.** presented a paper titled '*Reflection of Kerala Floods on the stock price of Major listed companies from Kerala*' also **N. Yashmitha** and **Adeline Christina Pereira** presented a paper titled '*Performance evaluation of Systematic Investment Plans in Top Rated equity oriented Large-Cap and Multi-Cap mutual funds during 2016-2018*' in one day National Seminar on Emerging Issues in Commerce organised by the Department of Commerce, **Bishop Chulaparambil Memorial College, Kottayam.**

# BISHOP CHULAPARAMBIL MEMORIAL COLLEGE

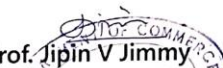
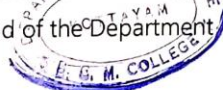
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## CERTIFICATE

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Head of the Department  


  
Prof. Josephina Simon  
Principal  


  
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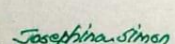
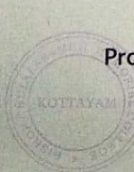
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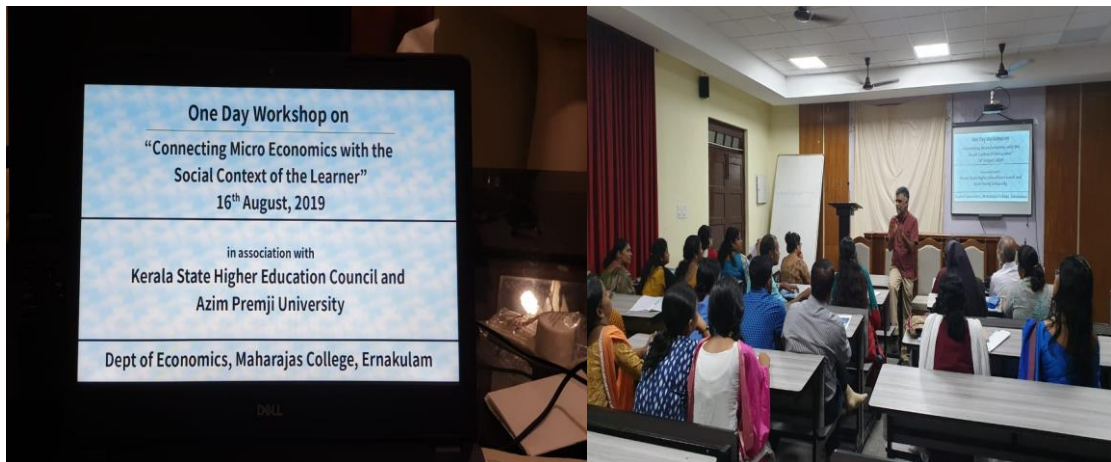

## 5. Department of Economics

Connecting the Undergraduate Teaching of Microeconomics with the Real Life of Students- a joint initiative of the Kerala State Higher Education Council, the Centre for Development Studies and Azim Premji University is operational under the initiative of Economics Department aiding to connect university teaching and experience with the real world.

The objective of the initiative is to encourage and empower college teachers to teach economics in a way that their students can relate it to their social and economic context. Teachers would be encouraged to come out with a number of real-life examples which can be used to understand/elaborate each concept of micro-economics covered in the syllabus. There is a platform as part of the initiative where college lecturers can publish the learning materials with such examples. Attempts will be made (through advocacy) to change the nature of the evaluation in the undergraduate and post-graduate programs so that there would be a greater focus on testing the ability of students to apply the knowledge in real-world contexts.

Expected outcomes of the venture

- A repository of examples which connects different concepts of microeconomics with the real life situations in Kerala (or India)
- A bank of questions that evaluate the students' ability to apply theoretical concepts in real world situations
- Teachers start using these examples in their class room sessions in microeconomics.
- Examinations and mid-term evaluations include a higher share of questions that test the application of knowledge.
- Students seek such examples from social media or other sources on their own to enhance their knowledge on how to apply microeconomics in real world situations.
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## 6. Department of English

The Department organized **Duende 2018** as part of the Shastrayaan Exhibition on 22<sup>nd</sup> and 23<sup>rd</sup> February 2018 wherein the students were actively engaged in articulating their subject knowledge recreating literary history, theory, characters and literary works in a palpable fashion through concrete working models, Poetree installations and the like. A platform was laid for the public to participate in the knowledge creating endeavour.



- The English Club engages in various stimulating activities throughout the year. A *Read'n Share* programme was organized on 21 June 2018 in Room No:22 in connection with the Reading Week. Students came up with refreshingly innovative

ideas to celebrate the boon of reading. A couple of them made soulful renderings of beautiful poems while others recounted their nostalgic experiences of having read their favourite novels and short stories.

- A theatre workshop was hoisted by the department wherein teachers and students of the college participated. A platform for nurturing the innate acting potential of the students was thus created.



- The department organized as part of its campaign for re using and recycling used items a workshop “*Designing Eco-friendly bags with used T-shirts*” on 7<sup>th</sup> February 2018 where students were taught to make bags out of T-shirts.



- On 13 February 2019, *Dr. P. J. Saju*, currently a medical practitioner in the U.K. and originally hailing from Ernakulam, delivered a talk on “*Cognitive Behavioural Therapy*” for the postgraduate students of the English department.



- *Dr. Anitha Devasia*, translator of the timeless Malayalam classic “*Indulekha*” was invited for a session with the postgraduate students. Her ruminations on her personal experience of translation gave the students a better insight into the theories of translation included in their syllabus.
- The department has been inculcating and promoting values of humanism embedded in literary genres among the students which is evinced through the deeds of students. The undergraduate students transformed the idea of celebrating birthday of a student to a magnanimous venture of visiting Alzheimer’s patients as part of the outreach programme
- The textbook **English for Jobseekers** prescribed for the Undergraduate Programme is devised in a manner that allows students to prepare resumes, engage in group discussions and conduct mock interviews and thereby equip them in pursuing a career after their studies.
- The department maintains a blog **Rendezvous** meant for motivating students’ creativity and developing their literary and academic writing skills.

## 7. Department of Hindi

Experiential learning is the process of learning through experience. The Hindi department had conducted field visits to daily press and students interacted with

senior journalists in order to get in depth knowledge on 'Journalism'. Various competitions like creative writing including short stories, poems etc., demonstration classes by experts on one act plays and the plays by students were also conducted. As a part of problem solving pedagogy we conducted group discussions and debates in connection with both literary and contemporary issues. Displayed visual adaptation of Hindi literary classic works and conducted discussions based on the above subject







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2. FIELD TRIP TO KERALA KAUMUDI PRESS.

- As a part of participative learning, Department of Hindi, Maharaja's College in collaboration with CUSAT and Hindi Prachar Sabha, has conducted lecture series of eminent professors; which provided students an opportunity to gain values, knowledge, and skills. The department also conducted exhibitions which included photo gallery, biography of different writers, video shows etc. The department engages in literary clubs like Chatra parishid, Sahithya parishid, Sahithyavedi etc. There are many script magazines prepared by students. Every year the department organizes different programmes like Hindi day celebration, Premchand Jayanthi Samaroh , National Seminar Workshop etc.

**മഹാരാജാസിൽ ഹിന്ദി ദിനാചരണം**

കൊച്ചി: മഹാരാജാസ് കോളജ് ഹിന്ദി വിഭാഗത്തിന്റെ അഭിമുഖ്യത്തിൽ ഹിന്ദി ദിനാചരണം നടത്തി. തിരുവനന്തപുരം ഫ്ലോറൈഡ് കോളജ് ഹിന്ദി വിഭാഗം മുൻ പ്രൊഫസറും ഭക്ഷണ ഹിന്ദി പ്രചാരസഭ കോർഡിനേറ്റർ ശ്രീമാ അദ്ധ്യക്ഷനുമായ ഡോ.ജെ.രാമചന്ദ്രൻ നായർ ഉദ്ഘാടനം ചെയ്തു. ഹിന്ദി വിഭാഗം അദ്ധ്യക്ഷ ജനുവൈസാർ അദ്ധ്യക്ഷൻ രാജിഷ് ചു. ഡോ. സുഗതി ഓഖിയപ്പുറം, ഡോ. മോഹിണി നായർ, ഡോ. ടി.ഡി. ബീന, ഡോ. അണ്ണൾ ലത്തീഫ്, ഡോ. റീനാകൃഷ്ണി വി.എൽ എന്നിവർ സംസാരിച്ചു. ഇതിനോടനുബന്ധിച്ച് വിദ്യാർത്ഥികൾക്കും അദ്ധ്യാപകർക്കുമായി വിവിധ മത്സരങ്ങൾ സംഘടിപ്പിച്ചു. വീരയ്ക്കൽ ഗവൺമെന്റ് ഹയർസെന്റർ ഡോ.കെ.എൻ.കൃഷ്ണകുമാർ സമ്മാനങ്ങൾ നൽകി.

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The department also arranges programmes in collaboration with Sahitya Parishid; one of the famous Hindi promoting Institution in Kerala. In collaboration with St. Theresas college Ernakulam the students availed an opportunity to interact with famous Hindi writer Chitra Mrudgal. As a part of problem solving pedagogy the department conducts group discussions and debates in connection with both literary and contemporary issues. Display of visual adaptation of Hindi literary classic works and discussions ensure active participation of students.

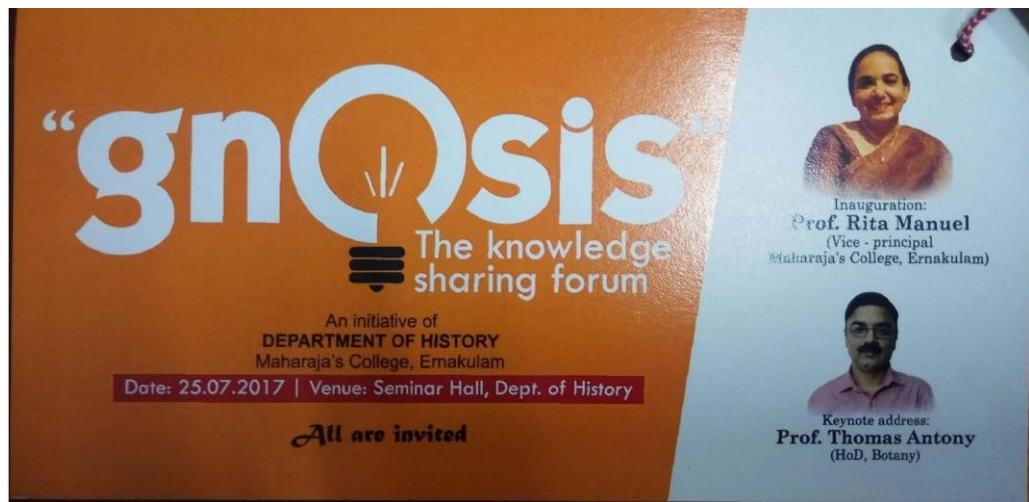


## 8. Department of History

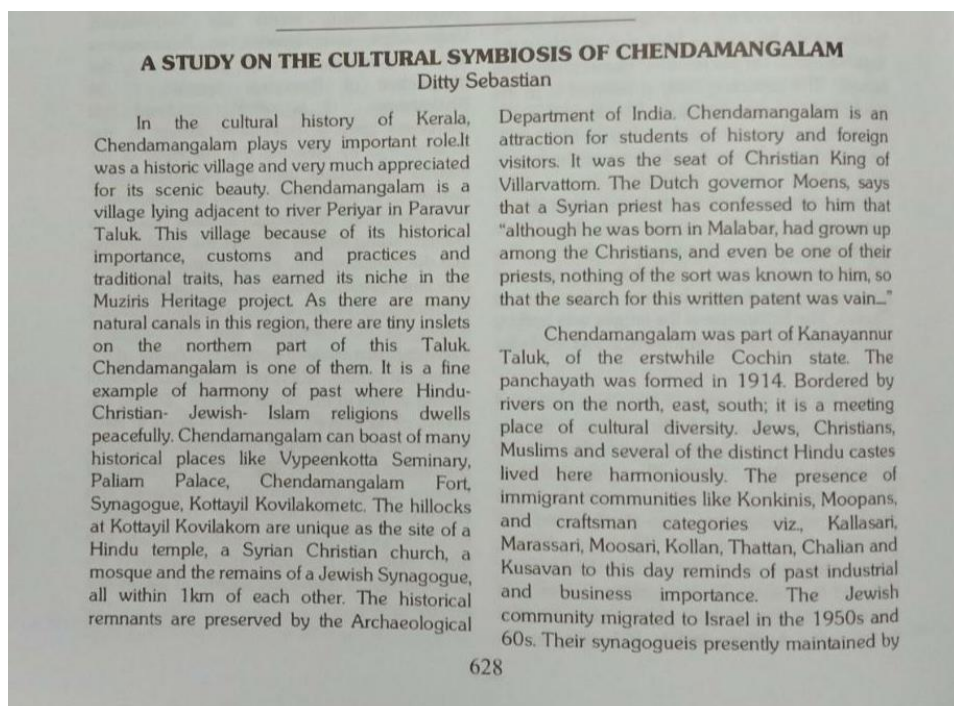
- Department encourages and promotes student centric learning process
- M.A History first year students launched lecture series named 'Asabiya' on various topics in History



- M.A History Second year students initiated Inter disciplinary knowledge sharing platform named 'Gnosis'



- Students were encouraged to present research papers in State and National level seminars and conferences on History



Paper by Ditty Sebastian, II MA History, got published in UGC enlisted journal

- Students were encouraged to organize Cycling expedition to create awareness on the need for protection of environment.
- Heritage walks \_Visiting the places of Historical significance were organized by the Department to provide practical experience to the students.

- Champaran Yatra was organized by the Department in the year 2017 to commemorate Centenary of Champaran satyagraha.
- Cultural programme 'Randola' was organized by the students to commemorate 90 the Year of the visit of Mahatma Gandhi to this College.



## 9. Department of Islamic History

Post graduate and Research department of Islamic history, Maharaja's college, Ernakulam strictly believes in student centric strategies in teaching learning process such as field study, participatory learning, and problem solving methodologies.

In field study, students get opportunities, to learn from historical sites. It empowers them to acquire knowledge directly from the area mentioned in their curriculum. Participatory learning provides the learners an opportunity to participate in the teaching learning process. As part of this teaching-learning process, seminars, debates and discussion sessions were

incorporated. Students are participating seminars and debates actively to sharpen their acquired knowledge.



## 10. Department of Malayalam

- The department of Malayalam has various approaches in student centric teaching and learning methods. The department been conducting seminars for PG and UG Students for every semester as per syllabi for a long period. From 2019 onwards the department has been arranging special general Seminars for final year U G and first and second year PG. This activity can be considered as participative learning.

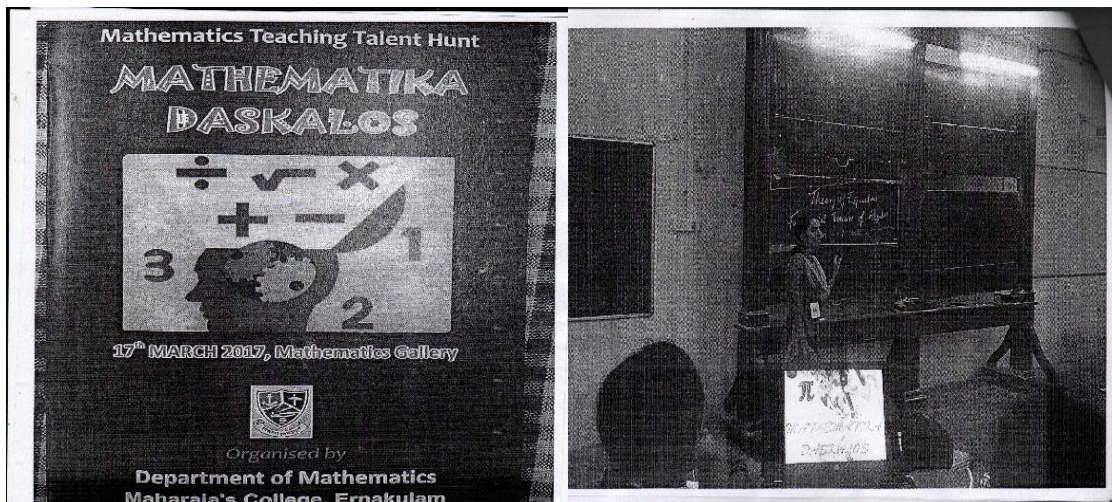


- As the part of the creative writing we have given assignments in an experimental view point for students for writing short stories, essays and poems. As the part of film studies the students are encouraged to write screen play and trained to take short films. Short films taken by students are analysed and uploaded to You Tube.
- There is a course on translation studies in PG syllabus. The theories are taught and the students are motivated to translate articles from English to Malayalam. Steps have been taken to avoid the common mistakes in reading and writing Malayalam language. The department arranges quiz programmes and **Kettezhuth** in connection with the **Mozhi**, a literary group in Malayalam Department.
- Remedial teaching and tutorial classes have been arranged for the slow learners.

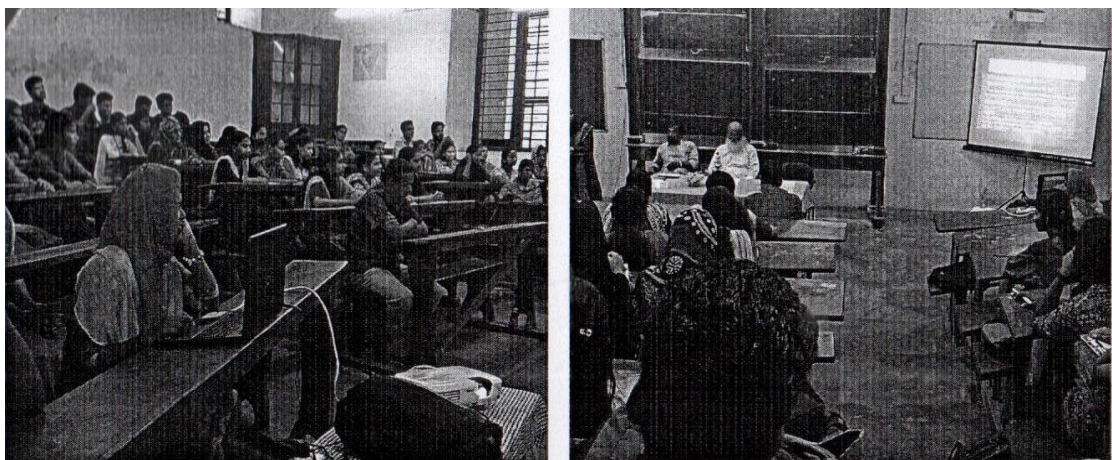
## 11. Department of Mathematics

Mathematics Department is one of the oldest departments in the college. Its graduation programme started in 1931, post-graduation in 1951 and in 2019 it has been elevated as research department. The department ensures the use of student centric methodology in teaching learning. The following activities are conducted by the department to facilitate students.

- Maths teacher competition is held in the department which provides all students to play a role as a teacher and having an experience to teach in classroom. Students are also encouraged to organize exhibition at department level. This helps students to improve their knowledge, presentation skills and personality development. It also inculcates the spirit of team work among students.



- Department adopts different participative learning methods like group discussions, assignments, quiz etc. This results in active participation of students in learning process. Projects which are part of curriculum are done by students by forming a group. They are also encouraged to attend conferences, workshops etc.
- Seminars by students are organized as part of the curriculum which helps them to improve their presentation skills and confidence level. There is a practice of delivering lectures on some important topics by senior students for other students as a Peer Group Learning program.
- Post graduate students of the department offers classes for the public as a coaching for competitive examinations which is one of the most valuable extension program of the Department.
- The department is conducting seminars/ workshops in national and international level periodically. Such type of seminars enhances students to learn advance level of their subjects.



- The students are divided into small groups including slow learners and fast learners. They are provided with different level problems. The discussions and presentations on the problems are periodically arranged under the guidance of faculty.
- To improve critical thinking, creativity, problem solving skills several real life application problems are given during tutorial time and teachers help them to analyse the problem.
- The department maintains a department library and internet facility to access all the journals, e-materials, e-books etc.

The department always encourages the students to come out with new and innovative ideas. In this endeavour our faculty has been taking pains with interest to demonstrate day to day examples to discuss a topic.

## **12. Department of Music**

As music is a practical oriented subject, individual attention is needed to be given to each student. Department is giving special attention especially for below average students by conducting remedial coaching classes. Special training is given to more talented students among the group to perform concerts. Practical assignments are also given to all students. Audio listening is introduced in the curriculum to enable the students understand the different faces of the performance and thereby moulding good musicians. Charts explaining for some theoretical aspects such as 35 talas, 22 sruthis, and 72 melakartha ragas are kept in the department in order to understand the same easily for the students. Performances of different scholars and veteran musicians are conducted frequently in the department so that the students get inspired. Department has a good library and there is facility for students to refer books for project preparation with the assistance of a teacher. Students are given platform to perform light music and classical music. As music is a performing art, it is a part of their studies and a good way to improve in the practical side of music. In short, students are facilitated effectively to improve their talents in the academic and performance level.

## **13. Department of Philosophy**

Students are permitted to initiate new learning activities of their choice in the form of groups or as a single student. They are prompted to do the activities such as debate or group discussion or presentation by students of their choice. Moreover, students are directed to select a particular topic of their choice for the programme end project and ask them to find



out a suitable method to do research work on it. It is a participatory learning activity with teacher, students as well as among the students themselves. Such activities enable them to solve problems. Participatory activities help the students to solve group adjustment problems and help to gain self-confidence. This is also an experimental method for teachers and among the students themselves for a happy learning experiences.

#### **14. Department of Physics**

- Experimental evidence is the back bone of any science stream and we have made sure that our curriculum gives weightage to both theoretical studies as well as practical. Each UG student do 12 practical courses, each comprised of a minimum of 8 experiments, so that almost 100 experiments are done during the programme. Similarly each PG student do 4 practical courses during their programme. Every UG and PG students have to complete a project during their programme and almost all of them are experimental.
- In addition to curriculum based learning, Department of Physics together with Astronomy Club, have arranged sky watching programmes for the students and public, for the last five years. In addition to the astronomical telescope that we have in the Department, a highly sophisticated Dobsonian Reflector type telescope was used for viewing planets and nebulae. The observations made by the students were verified by using a software program called 'STELLARIUM'. In 2018, Department of Physics together with 'Positron Foundation' conducted a two day workshop on 'Basics of Observational Astronomy and Astrophotography: Post processing Techniques' and our students participated in it.



- A ‘two day workshop’ on ‘INNOVATIONS IN EDUCATIONAL TECHNOLOGY’ was conducted on 19th and 20th December 2016, in which students also participated. Softwares that help students to do virtual labs were introduced during the workshop. The workshop included sessions like 1) ‘Learning in a virtual class room’ , by Dr. Sreelatha K S ,Assistant Professor, Government College, Kottayam, 2) ‘Lab View’ by Mr. Jiyo Mathew, Senior Field Application Engineer, Lab View and 3) ‘Virtual Instrumentation’ by Dr. E. M. Mohammed .
- Sastrayan 2018, was a great opportunity to our students to learn a lot with experiments. During the Open house in Sastrayan 2018, all our labs were open for the public and our students demonstrated experiments to visitors. In addition to the experiments specified in syllabus, students designed various laser experiments like, hologram reconstruction, laser trap, 3D illusion board etc. Sophisticated research instruments of the Department, like Scanning Electron Microscope (SEM), UV-Spectrophotometer, Impedance analyzer etc. were also demonstrated during the programme.



- Student Seminar is an integral part of our curriculum and each student participate in it during their programme.
- The Department conducted ‘Stephen Hawking Memorial Lecture series’ in 2018-19 which consisted of 4 lectures. One of the lectures, namely ‘Newtonial Blackhole’ was done by our final year B Sc Physics student ‘Inzamam Ul Haq’ and all the students participated.
- In connection with Ozone day celebrations on 30/9/2016, the Department conducted an outreach programme. The Post Graduate students of the Department gave lectures on the importance of preserving ozone layer in the atmosphere to the students of 3 schools, 1) SRV School, 2) Govt. Girls Higher secondary school and 3) St. Alberts School at Ernakulam.
- The Department of Physics in collaboration with Department of Chemistry conducted a two day programme (on 16/2/2017 and 17/2/2017) "Science for all" to generate awareness on the importance of using science, for making society friendly to all. Our students participated in the programme which also included an Exhibition of Assistive tools for Blind students from Assisi Convent Special School, Thoppumpady, Kochi.
- During Sastrayan 2018, the open house and exhibition were conducted with the help of students and they also explained the use of stellarium software and telescope to the public. Our department is quite old and we have some instruments dating back to even 1904. Some of them were identified and kept for display. Our students learned and explained the principle and working of such instruments to the visitors.
- Introduction of group learning was found to be effective for III BSc Physics batch 2016-17. As part of improving the performance of students in examinations, the students of V th semester B Sc Physics were divided into 5 groups. Each group contained bright students who voluntarily were willing to help others. Each group held

meetings regularly and group leaders gave feedback to the tutor. Many students benefited from this group learning and the pass percentage improved from 63.4% in the fourth semester to 80.5% in the 5th semester and 94.7% in the sixth semester.

- Every year, a few students who are very good in computer programming voluntarily take classes for others who do not study computer science in their Plus Two classes which make it easier for them to study the subject.
- Problem solving is an integral part of the curriculum and almost one fourth of total marks for every course belong to problem solving. Methodology of problem solving in physics include modelling of a real life problem, identifying the suitable method applicable to the problem and verifying the outcome with experimental results. Every year we conduct NET coaching classes in which a majority of classes is devoted to problem solving. Apart from these, some of the assignments include problem solving which were later presented in class by students themselves. In addition to this, problems are discussed and solved in tutorial sessions.

## **15. Department of Politics**

From civil unrest in the West Asia to international trade negotiations, today's political landscape is complex. Learn how to navigate (and shape) that terrain with a Political Science degree from Maharaja's College. Department of Political Science endeavours for "The strategic, active engagement of students in opportunities to learn through doing, and reflection on those activities, which empowers them to apply their theoretical knowledge to practical endeavours in a multitude of settings inside and outside of the classroom". In order to fulfil this, Department has undertaken a number of initiatives such as internships, seminars, special lectures, discussions with presentations made by the students, orientation on academic writing and field visits to enhance their skills.



## 16. Department of Sanskrit

- In addition to the lecture method, the department stresses the student centric methods like seminar presentation, group discussions, assignment preparation and debate on the topic related to the syllabus.
- ‘Kudiyattom’\_is included in the 5<sup>th</sup> semester B.A Sanskrit syllabus. The students are exposed to the practical presentation of the theory studied by them through demonstration classes by professionals. They are also encouraged to visit other institutions of performing arts. After the presentation the student is expected to clear the doubts. The students also get opportunity to learn the mudras (four types) of acting through performance of Kudiyattom.



- Manuscriptology is a part of M.A. Sanskrit syllabus. Visit to Manuscript libraries is also a part of the syllabus. These visits assist the students in obtaining a clear idea on different preserving methods of manuscripts and promote interest in research in manuscripts and critical edition.





## 17. Department of Statistics

- The subject of Statistics is mainly concerned with problem solving of real life situations. The students of the department are made to work out real life problems side by side along with the corresponding theory in the computer laboratory. They make use of various statistical soft wares for this. This is done apart from the routine practical paper included in the syllabi.
- Research scholars from various disciplines visit our department for seeking assistance for data analysis. We incorporate our PG students also to provide them help regarding various statistical methods useful for data analysis. We believe that students will develop knowledge, skills and values from direct experience outside the traditional academic classroom setting.



## 18. Department of Zoology

Learner-centred methods have been shown to be superior to the traditional teacher-centred approach to instruction, the outcome of which are long-term retention, or deep understanding of course material, acquisition of critical thinking or creative problem-solving skills, formation of positive attitudes toward the subject being taught, or level of self-confidence in knowledge and skills.

The department adopts the following strategies to promote student- centric learning-

- Co-operative learning – Breaking students into small groups of 3-5 numbers, each group is given a particular topic on which they discuss actively and derive conclusions. The whole process will be monitored by the teacher.



- Field trips – Field trips have been arranged to ecologically significant areas where each student is advised to work on a particular species or any environmental issues in detail and to prepare and submit a report of the same.





- Presentations – The learner presents a particular topic on which the entire class discuss and clarify doubts.
- Student projects – Motivate students to take up projects on areas like water/waste management for finding solutions to real life problems.
- The department has a museum established in the year 1874 and at present contains more than 1500 specimens. The department conducts Science exhibitions and every year the museum is made open to visitors from outside.





- Group activities - Preparation and maintenance of vermiculture unit, aquarium, maceration etc.