



# Academic Interventions Initiatives (All)

## *"Educate to Empower"*

### BEST PRACTICE-|



TKM COLLEGE OF ARTS & SCIENCE  
KARIKODE, KOLLAM

# Best Practice I

## “EDUCATE TO EMPOWER”

### Aims and Objectives

The aims and objectives of COPS are listed below:

- Facilitating progression of students towards higher research/academic prospects
- Enhance efficacy of the teaching-learning process
- Effective curriculum delivery through innovative practices
- Impart ICT-enabled blended learning to the students
- Skill enhancement for employability
- Supporting disadvantaged and underprivileged students with monetary and educational resources

### The Context

As a nation, India is moving towards a knowledge economy and society. Since 2014, the Government of India and MHRD has focused on moving the higher education sector towards a more multidisciplinary orientation while guaranteeing increased access, equity and inclusion. T. K. M. College of Arts and Science envisaged the aims and objectives of the Academic Interventions Initiatives taking this vision of the Central Government into account.

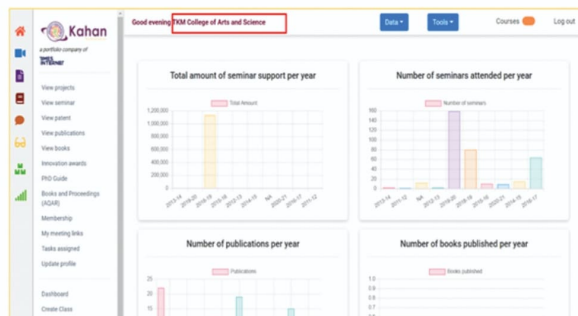
### The practice

Academic Interventions Initiative (AII) – includes strategies and measures instituted to enhance the efficacy of the teaching-learning process and faculty empowerment programmes. The institution adheres to the UGC/NAAC/University stipulated outcome-based blended learning. Even before the onset of the pandemic, the college, under the aegis of the IQAC, had taken steps to supplement regular classroom teaching with ICT tools. The steps include:

- Upgradation of LMS from Look Campus to Campus Technology which provides the facilities for hosting live classes, online examination, add-on courses, access to additional educational resources

## Administration – Campus Technology LMS

### Main Webpage



## Faculty Profile

The screenshot shows the 'Faculty Profile' page in the Campus Technology LMS. It includes a sidebar with navigation options like 'Dashboard', 'My Details', 'Admin Configure', 'Tasks and Workflow', 'NAAC SDR', 'Online Forms', 'Multi Campus Reports', 'Fees Config and Reports', 'Attendance', 'Workload and Session Plan', 'Admissions', 'Students', 'All Events', 'Timetable', 'Class and Timetable', and 'Workload and Session Plan'. The main content area displays a table of faculty members with columns for ID, Name, Designation, Mobile, Telephone, Email, Address, Qualification, Type, Gender, Date of Birth, Department, Position, and Category. A red box highlights the 'TKM College of Arts and Science' header.

ID	Name	Designation	Mobile	Telephone	Email	Address	Qualification	Type	Gender	Date of Birth	Department	Position	Category
2770	Adrian V K	Assistant Professor	9895333851		adrian@tkm	KPM	Full Time	Male		15/10/1975	12/05/08	NAAC/15/05/08	General
2771	Alina K	Assistant Professor	9895333857		alina@tkm		Full Time	Female		6/3/1981	12/05/08	NAAC/15/05/08	General
2772	Aparna K R	Assistant Professor	9895333857		aparna@tkm		Full Time	Female		16/01/1972	12/05/08	NAAC/15/05/08	General
2768	Boby T	Assistant Professor	9895333858		boby@tkm		Full Time	Male		6/16/1988	12/05/08	NAAC/15/05/08	General
2761	Dr. Abdul Kalam	Assistant Professor	9895333851		abdul@tkm		Full Time	Male		27/12/1976	12/05/08	NAAC/15/05/08	General

## Finance & Accounts

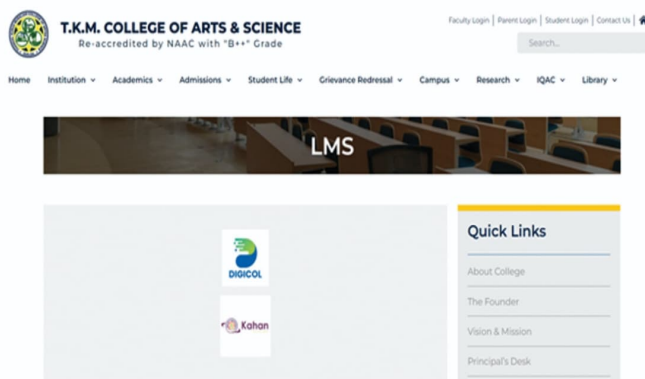
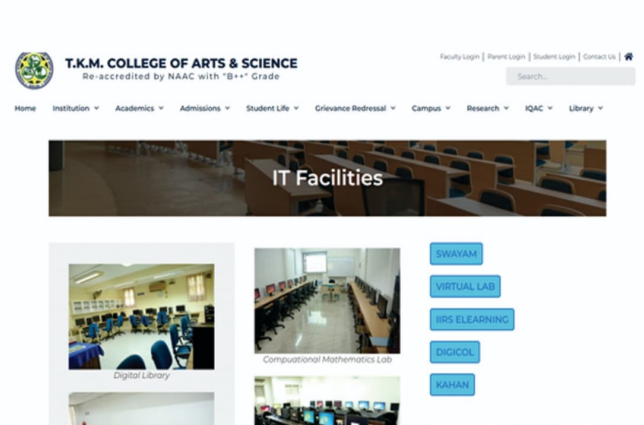
The screenshot displays the 'Finance & Accounts' module. It includes a sidebar with navigation options like 'Go To', 'Import', 'Export', 'M E-mail', 'Print', and 'Help'. The main content area shows a table of accounts with columns for 'NAME OF COMPANY', 'DATE OF LAST ENTRY', and 'CURRENT DATE'. A red box highlights the 'TKM C.A.S (Management Accounts)' entry.

NAME OF COMPANY	DATE OF LAST ENTRY	CURRENT DATE
TKM C.A.S (Management Accounts)	30-Dec-21	Thursday, 1 Apr 2021
TKM C.A.S (Admission 2020-2021)	14-Oct-20	
TKM C.A.S (Cash)	8-Oct-21	
TKM C.A.S (Management Accounts)	30-Dec-21	
TKM Trust	30-Jun-20	

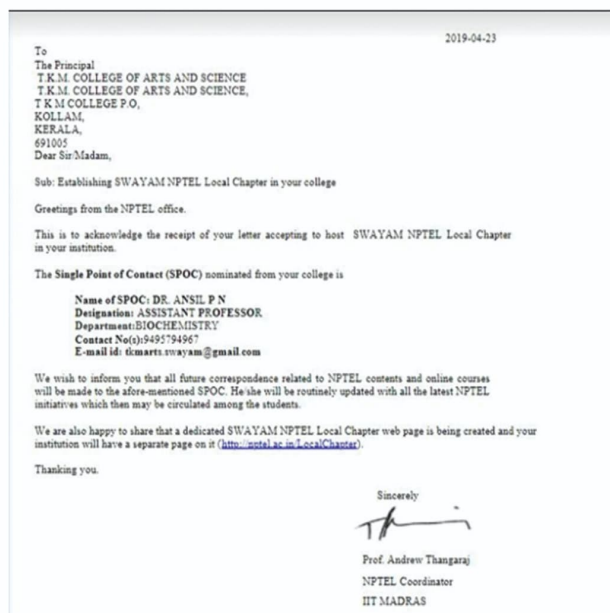
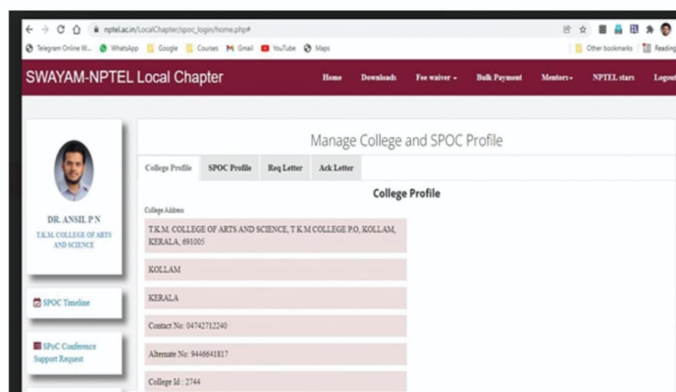
- Organization of faculty training programmes to educate faculties about various online educational resources and platforms.





- Access to free digital platforms conducive to online learning like G Suite and Moodle, provided by the college.



- Virtual Labs Nodal Center Program, an initiative of NME-ICT, MHRD and Amritha Vishwa Vidhyapeetham
- The college has been registered as NPTEL local chapter.



- IQAC played a major role in increasing the number of certificate courses offered by the various Departments, aimed at enhancing skill and employability of students.

<p><b>About the course</b></p> <p>GeoGebra is one of the dynamic mathematics software for teaching and learning mathematics. It is open source software under the GNU General Public License and freely available at <a href="http://www.geogebra.org">www.geogebra.org</a>. The aim of this course is to demonstrate how GeoGebra can be used for gaining a better understanding of mathematical concepts.</p> <p><b>Targeted Audience</b></p> <ul style="list-style-type: none"> <li>&gt; Students with higher secondary mathematics background</li> </ul> <p><b>Duration</b></p> <ul style="list-style-type: none"> <li>&gt; 30 hours</li> </ul> <p><b>Instructional Methods</b></p> <ul style="list-style-type: none"> <li>&gt; Online/Offline lectures</li> <li>&gt; Lab sessions for experiential learning</li> <li>&gt; Provides web resources in terms of videos and tutorials</li> </ul> <p><b>Mode of Assessment</b></p> <ul style="list-style-type: none"> <li>&gt; Quiz (Oral/Written) based on the topic</li> <li>&gt; Practical examination at the end of the course</li> <li>&gt; Assignment/Record</li> <li>&gt; Attendance (Lecture+Lab)</li> </ul> <p>Grades will be awarded on the following basis:</p> <table border="0"> <tr> <td>80% and above</td> <td>- A Grade</td> </tr> <tr> <td>70-79 %</td> <td>- B Grade</td> </tr> <tr> <td>60-69 %</td> <td>- C Grade</td> </tr> <tr> <td>Below 60%</td> <td>- D Grade</td> </tr> </table> <p>A minimum of C Grade is necessary to provide the Certificate.</p>	80% and above	- A Grade	70-79 %	- B Grade	60-69 %	- C Grade	Below 60%	- D Grade	<p><b>Certificate Course on</b>  <b>Dynamic Mathematics Using</b>  <b>GeoGebra</b></p> <p><b>Offered by</b>  <b>Department of Mathematics</b></p>  <p><b>TKM College of Arts and Science,</b>  <b>Kollam</b></p> <p><b>Course start date: 05/01/2019</b></p> <p><b>Course facilitator:</b>  <b>Adersh V K</b>  <b>Assistant Professor in Mathematics</b>  <b>TKM College of Arts and Science,</b>  <b>Kollam - 691005</b>  <b>Mobile: 9995145951</b>  <b>E-mail: adersh@tkmcos.ac.in</b></p>	 <p><b>GeoGebra</b></p> <ul style="list-style-type: none"> <li>★ GeoGebra is a dynamic and interactive Mathematics software.</li> <li>★ It brings together Geometry, Algebra, Calculus, spreadsheets, graphing, statistics and probability applications in a single package.</li> <li>★ Students can use GeoGebra to make conjectures and to understand how to prove geometric theorems.</li> <li>★ GeoGebra is available for Windows, Mac OS and Linux. GeoGebra has tablet apps for Android, iPad and Windows.</li> <li>★ It is freely available for download at <a href="http://www.geogebra.org">http://www.geogebra.org</a></li> </ul> 
80% and above	- A Grade									
70-79 %	- B Grade									
60-69 %	- C Grade									
Below 60%	- D Grade									

- The IQAC considers faculty empowerment as an important area identified in the Strategic (Five-Year) Plan:
- The IQAC provides monetary incentives to faculty members to attend seminars/conferences/workshops
- The IQAC has a separate budget head for funds for the conduct of Faculty Training Programmes and Workshops on various relevant themes which include interdisciplinary initiatives as well as department-specific programmes.
- The IQAC ensures the timely participation of faculty members in Induction Programmes, Refresher Courses and FDPs to smoothen the CAS process.
- The IQAC co-ordinates with the Research Committee and ensures submission of research proposals for availing grants/funds from various government agencies.

Academic Interventions Initiatives also cater to diverse student categories and devises programmes/strategies/practices for the same

- Under the Academic Enhancement Programme (AEP) of the college, students are given opportunities to interact with scholars, industry experts and scientists via lecture series, workshops, national and international conferences.

**International Conference on Energy and Environment  
(iCEE 2k19)  
12-14 December 2019**



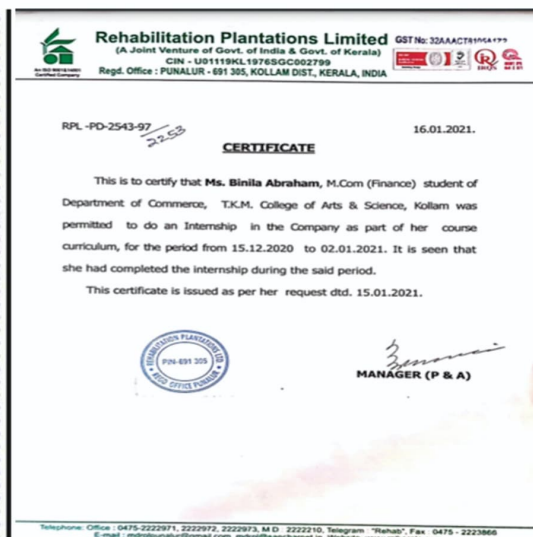
- Counselling Assistance and Resources for Education (CARE) exclusively caters to the needs of slow learners by providing them assistance with lab sessions, mock tests, additional learning materials.
- IQAC-led Research Initiatives (IRIS) focuses on promoting the spirit of intellectual curiosity and research among students through research methodology workshops, UG/PG internships, under taking innovative topics for projects at UG/PG level and dissemination of information on premier research institutions.

As a continuation of national workshop on Research Methodology conducted on 17th and 18th January 2020,

Department of Commerce in association with WWS, TKM College of Arts and Science held a one day workshop on 21st January 2020 meant for PG students from department of

Commerce and selected final year students from all departments. Dr. Muhammad Musthafa, UGC Librarian, TKM College of Arts and Science was the resource person. This was indeed highly helpful for students to facilitate the successful completion of their project work with better orientation and perfection.





- Students are given coaching/assistance for cracking qualifying examinations (like NET, SET, SLET, GATE) as well as entrance tests for admission into various state research departments as well central universities.

### Training Programme for PG Students

A special training programme on competitive examinations for final year P.G. students was conducted on 4 December 2018. Prof. A. Hashimudeen, former principal, was the key note speaker.



- The college library provides the students access to databases like NList.



## Evidence of Success

1. The details of Faculty Training Programmes organized by IQAC are given below:

Year	No. of programmes
2016-17	4
2017-18	10
2018-19	14
2019-20	14
2020-21	10

2. College is one among ten institutions shortlisted for Let's Go Digital DigiCol initiative of the Government of Kerala. Under this scheme, the college can avail MOODLE server space and LMS sponsored by the government.

3. The number of certificate courses offered by various departments have risen progressively in the last five years. The details are given below:

Year	No. of certificate courses
2018-19	14
2019-20	27
2020-21	34

4. The college has registered for GSuite account and user IDs created for all faculty members and students. Every faculty member has a dedicated online platform (Google Classroom, Moodle, College LMS account) for sharing study materials, powerpoint presentations and video lectures with students.

5. The student community uses NList services provided by the college library to access resources for preparation of assignments, projects.

### Problems Encountered and Resources Needed

Sl No.	Problems Encountered	Resources Needed
1	Hesitation among students to adopt blended learning system	Teachers organized informal online sessions to familiarize the students with various online educational resources; peer assisted learning was also encouraged. Resources needed: 100 percent digital access for all students
2	Digital literacy among teaching and non-teaching staff	Technical assistance from support staff
3	Teachers find it difficult to attend Faculty Empowerment Strategies due to the hectic CBCS academic calendar	Schedule to ensure all faculty members get equal opportunities to attend seminars/workshops/Faculty Development Programmes on a rotation basis
4	Financial constraints in the implementation of ICT-enabled teaching-learning techniques	Financial support from government/non-government organizations