



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	M. E. S. COLLEGE NEDUMKANDAM
Name of the head of the Institution	Prof. A M Rasheed
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04868232043
Mobile no.	9446409795
Registered Email	mesndkm@gmail.com
Alternate Email	iqac@mesnedumkandam.in
Address	CHEMBALAM (PO)
City/Town	Nedumkandam
State/UT	Kerala
Pincode	685553
<b>2. Institutional Status</b>	

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed and grant-in-aid
Name of the IQAC co-ordinator/Director	Dr. Nishad K K
Phone no/Alternate Phone no.	04868233060
Mobile no.	9907813589
Registered Email	mesndkm@gmail.com
Alternate Email	iqac@mesnedumkandam.in

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="http://mesnedumkandam.in/index.php/aqar/">http://mesnedumkandam.in/index.php/aqar/</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	<a href="http://mesnedumkandam.in/index.php/academic-calendar/">http://mesnedumkandam.in/index.php/academic-calendar/</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
2	B	2.38	2016	05-Nov-2016	04-Nov-2021

<b>6. Date of Establishment of IQAC</b>	05-Jun-2002
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### 7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
IQAC encourage the teachers adopt a Blended	09-Mar-2020 1	56

learning method to ensure high impact teaching learning practices.		
Measures to increase the achievements of students in sports and cultural activities in University level.	23-Jan-2020 4	211
Fosters innovation and creativity in students through exhibitions, seminars, group discussions, study tours, etc	08-Jan-2020 5	132
Special mentoring for advanced learners through Walk With Scholar program (WWS).	30-Nov-2019 14	30
Remedial Coaching Program to reduce failure gap and dropout rate.	05-Oct-2019 8	80
Implementing Outcome Based Education in college	10-Sep-2019 1	56
Trained the teachers to use online learning platform as content creators	07-Sep-2019 1	56
Promotion of sustainable development	03-Sep-2019 8	35
IQAC proposed to form a Competitive Examination Coaching centre in the college campus	06-Jul-2019 15	20
Nourishes eco-aesthetic concerns through the activities of NSS, NCC, Nature club, Readers Forum etc.	05-Jun-2019 12	338

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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
MES College,	Nil	Nil	2020 0	0

[View Uploaded File](#)

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View Link](#)

**10. Number of IQAC meetings held during the year :**

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View Uploaded File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

? Initiated developmental strategy to overcome the infrastructural shortcoming

? Faculty development and training program to improve the outcome of teaching learning process

? Initiatives has taken for Startup, Innovation and Incubation Activities

? Initiated activities for sustainable development to nearby community

? Integration of ICT into learning and teaching process

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
To Strengthen of Training and Placement cell	? Effective training programmes were conducted ? On Campus Placement drives conducted. ? Students participated in the off campus drives
To strengthen students support programme	? Remedial teaching is conducted for SC/ST, other socially and economically backward students. ? Scholar support programme, Career guidance, personality development and counselling classes

	have been conducted. ? Walk with Scholar program to support advanced learners Induction classes to UG & P.G students ? Availled management and other scholarships to the students				
To ensure high quality Research and Innovation	? Teachers have published 11 research papers in various journals. ? Teachers has participated in seminars, workshop and Conferences. ? Teachers submitted research project to different funding agencies. ? Conducted seminars in research methodology to improve quality of research work of PG students				
To evaluate the impact teaching-learning process	Centralized internal examination system was introduced as per the university examination model				
To improve the effectiveness of Extension activities	IQAC made initiatives to strengthen the extension activities to the nearby community in association with various departments, NSS, NCC, UNAI, Clubs forum etc. Number of extension activities are 38				
To participate in the sustainable development programmes under the United Nation Academic Impact	Actively involved in the sustainable development practices initiated by of United Nations Academic Impact [UNAI]				
To improve ICT enabled teaching learning practices	? IQAC made integration of online class room with regular offline mode of classes for blended course ? Conducted seminar on Swayam; Opportunities for faculty members				
To introduce Teaching Learning Evaluation through Outcome Based education (OBE).	IQAC has trained faculty members in designing Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs).				
To draft the academic calendar and to review the teaching - learning process.	IQAC drafted the calendar and monitored the teaching learning process regularly in meetings through feedback and surveys.				
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<b>14. Whether AQAR was placed before statutory body ?</b>	<b>Yes</b>				
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th><th>Meeting Date</th></tr> </thead> <tbody> <tr> <td>IQAC</td><td>04-Jan-2021</td></tr> </tbody> </table>		Name of Statutory Body	Meeting Date	IQAC	04-Jan-2021
Name of Statutory Body	Meeting Date				
IQAC	04-Jan-2021				
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	<b>No</b>				
<b>16. Whether institutional data submitted to</b>	<b>Yes</b>				

<b>AISHE:</b>	
Year of Submission	2020
Date of Submission	31-Jul-2020
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The admission is done from an online list given by the university under the centralized allotment process. However the formal admission to the college is managed by the admission committee in the college with the help of Dekatia software. Most of the information services are done through notices, letters, telephones, emails and website and social media. The internal exam marks, attendance, fees and scholarships etc. are monitored by an office automation system software Dekatia. Staff salary and related service works are operated through SPARK online system. Library is managed by the Delplus software in which issue of books, return etc. are done using the barcoded identity card.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Institution follows a Planning, execution and evaluation (PEE) method to ensure high impact in teaching learning process and thereby execute an effective content delivery. The college functions on a well-planned institutional level academic schedule, Programme outcome (POs) and action plan through a thorough discussion with all the Heads of Department and the faculty members. Based on the prepared institutional academic schedule and POs, each department prepare their own academic schedule and an action plan which cover all curricular and extracurricular extension activities. In addition, the content delivery in the class room followed by the preparation of a teaching plan by all individual teachers in accordance with the syllabus and academic calendar of the MG university, Kottayam. On the one hand institution ensures the crystal clear planning for the effective delivery of the curriculum in the class room, on the other hand the all teaching faculty members execute their plan under the supervision of Heads of departments and institutional administrators. The institution also ensures an innovative and unique way of content delivery of the curriculum with systematic teaching with strict adherence to the well-prepared lesson plan, Preparation of E- learning material, flipped method of teaching learning process and ICT enabled learning practices. More than that, we also ensure the participatory learning through group Discussion, role play, quiz, assignment,

seminar, brain storming case study analysis etc. Remedial teaching is conducted for SC/ST, other socially and economically backward students, Bridge courses are conducted for those students who have inadequate subject base, Special support programs for Slow Peer- Teaching and Learning strategy is also used to enhance students learning. Project based learning is also followed. Under the project-based learning approach in which students are given a real-world situation which they analyse and present using their academic knowledge and creativity. Project work are based on central ideas of a topic beyond the academic curriculum. The other traditional teaching learning methods like Discussion Method, Questioning/Socratic Method, Team Teaching Method, Talk Chalk/Recitation Method, Field Trip Method are also followed. A strict evaluation process of the students is also carried out to analyze the level of learning of students through Continuous Internal Evaluation (CIE), prepared outcome calculation feedback and external examinations.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Office Automation	Nil	15/07/2019	40	Employabil ity	Office Automation
Research design and data analysis	Nil	15/06/2020	30	Employability	analyst
Certificate Course in Functional English	Nil	16/09/2019	30	Content Writer/ Translator	Communicat ion Skill
Introduction to Microcont rollors and Arduino programming	Nil	04/12/2019	14	Employabil ity/Entrepre neurship	Circuit design and programming
STATISTICS WITH SPSS	Nil	09/10/2020	12	Employabil ity in data analytics	Data analytics
Certificate course in intellectual reading and writing practices	Nil	11/06/2019	30	Employabil ity	Reading, Writing, Econtent awareness

#### 1.2 – Academic Flexibility

##### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	Nil	Nil
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##### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the

affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	Nil	Nil

#### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	131	0

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
LATEX	01/02/2020	20
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#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BSc	Chemistry	22
BSc	Mathematics	35
BVoc	Accounting Executive	30
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### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

#### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The institution has a well structured feedback system to stake holders and seeks advice and input from industry leaders, in order to check and improve the academic engagements. Structured feedback is provided for each course in two different forms: the focused feedback is obtained within 6 week of each semester from students, and other structured feedback is obtained after the completion of the course and before the end semester examinations. The data generated is compiled by the program office and shared with concerned Faculty, Department Heads and Principal within three working days of obtaining the feedback. If any course correction is required the same is done based on the information obtained from the focused feedback. Both these feedback information is incorporated in the syllabus review document prepared by the faculty at the end of the course. Each faculty gathers feedback on course content, sequencing of topics and assessments. The college also gathers feedback from each graduating batch after the completion of the course on the overall quality of the program and other facilities. Employers Parents Data gathered in the process is documented and shared with the program and administrative/support</p>



staff of the institution and the action taken report is shared with the concerned stakeholder.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MSc	Operations research and Computer Application	10	23	9
MSc	Computer science	12	62	12
MA	HISTORY	12	18	10
BVoc	APPLIED ACCOUNTING & TAXATION	50	92	50
BCA	computer science	38	128	37
BCom	commerce	30	180	29
BSc	physics	30	22	20
BSc	Mathematics	45	30	30
BSc	Chemistry	30	18	18
BA	History	70	148	70
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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	316	95	50	17	5

### 2.3 – Teaching - Learning Process

#### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
72	72	144	12	12	12
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

#### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The institution has implemented a well structured two tier mentoring system in which each student of our College is attached to faculty mentors for career advancement, development and personal guidance. Initially the students are divided almost equally among teachers and a list of mentors and mentees are prepared. Each mentor maintain a mentors dairy which consist an overall academic and personal details of their mentees. The mentors meet their mentees periodically and continue to be the mentors with the students allocated to them for their entire course. the mentor create a rapport with the student mentee, encourage her to ask questions, attempt to clarify doubts and facilitate counselling on different issues when required. The institution has a mentor policy to focus on the mentee's holistic development by guiding him/her in areas like academics, summer internship, comprehensive viva, comprehensive projects/dissertation, career choices, final placements etc. In addition to this the college makes a system to identify the advanced learner and slow learner students from each class and special mentoring is provided for them. The best academically performing or an advanced learner students are also divided into small groups of five or six students and ensure the mentoring to their career advancement under the walk with Scholar (WWS) scheme. In this scheme, mentoring process is indented to develop the skills of mentees such as employability skill, communication Skills, initiative and Enterprise, continuous and lifelong learning orientation, attitude and Confidence, self-Management-Planning and Organizing, General Awareness, Adaptability and Flexibility The slow learner students are also divided to a small group of five or six. These small groups of mentees are assigned to a faculty mentor and special mentoring session will conduct under Scholar Support Programme (SSP). These students get subject learning assistances as well as learning skill practices. Special mentoring session also conduct for language leaning with the support of well trained mentors.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1078	72	1:15

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
72	72	0	0	0

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr Nandajan PC	Assistant Professor	SERB- TARE
2020	Dr AS Sumesh	Assistant Professor	Senate Member, Mahatma Gandhi University
2020	AM Rasheed	Principal	Senate Member, Mahatma Gandhi University
Nill	Dr.A.S Sumesh	Assistant Professor	Member, Board of Studies, MG University Kottayam
Nill	T Satheesh Babu	Assistant Professor	Member, Board of Studies, MG University Kottayam
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## 2.5 – Evaluation Process and Reforms

### 2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during

the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
No Data Entered/Not Applicable !!!				
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#### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institution follows a Continuous Internal Evaluation (CIE) system based on the regulation prepared by Mahatma Gandhi University, Kottayam. The CIE system in the institutional level consist a predetermined transparent system involving periodic written tests, attendance, viva-voce, seminars, and assignments/records of Lab skill. The following prerequisite measures have taken before the internal evaluation of the students. • We maintain a well-organized Attendance Recording system in which attendance of each hour is recorded in the Attendance Register followed by a consolidation in every month and end of semester. • All the students have been assessed by two or more internal examination and results are published timely. • Viva-Voce was used to conduct on each chapter or at the end of semester. • All the students are given assignments and seminars. Some teachers use some modern tools such as e-submission, video seminars, PPT presentation etc. • It has been verified and ensured that every student has done the minimum number of practical experiments given to him and submit their practical records timely • It has been verified and ensured that every students has done an innovative, new and relevant project work and submitted their project report on time To ensure transparency, all students are asked to sign the internal mark sheet before it is finalized and submitted to the university.

#### 2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

For every academic year, the institution prepares a academic calander based the academic calander of the Mahama Gandhi University Kottayam, Kerala. The detailed academic and other institutional activities like Arts Day, Sports Day, College Day, and the expected the time schedule of each internal exams use to incorporate in this academic colander. This prepared academic publish in the website and also share to students and teachers y by all other means. The institution ensure the conduct, evaluate and publish the result of internal examinations in the each department strictly adheres to the college academic colander. University regulations and notifications are followed for all internal evaluation related matters.

### 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://mesnedumkandam.in/index.php/poco/>

#### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
Nil	BCA	Computer Application	52	42	80%

Nil	MSc	OR and CA	4	4	100
Nil	MA	History	7	7	100
Nil	BSc	Industrial Chemistry	22	14	63.6
Nil	BCom	Computer Application	28	17	60.71
Nil	BA	History	54	23	42.6
Nil	BA	Economics	39	19	48.7
Nil	MSc	Mathematics	18	6	33.33
Nil	MSc	Physics	24	9	37.5
Nil	BSc	Mathematics	35	15	42.85
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://mesnedumkandam.in/index.php/students-satisfactory-survey/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Nil	0	Nil	0	0
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### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Business Entrepreneurship -Experience sharing session	ED Club	12/07/2019
Various schemes and procedures for industrial development	ED Club	27/08/2019
Preparation of business projects	ED Club	02/03/2020
National Seminar on Effective Water Management in Cardamom Cultivation	United Nations Academic Impact(UNAI)	09/03/2020
Representative Democracy: An Introspection	Department of Languages	27/02/2020
Orientation Seminar on Sustainable Development	United Nations Academic Impact(UNAI)	20/06/2019

Intercollegeate seminar on Empyreal	Physics	21/12/2019
National Webinar on Weather Climate	Physics	17/05/2020

### 3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
The twin App: the doctor-Patient via Game and Consultancy	Kavya Muraleedharan	YIP-Govt. of Kerala	23/01/2020	Students
The twin App: the doctor-Patient via Game and Consultancy	Varsha Baiju	YIP-Govt. of Kerala	23/01/2020	Students
The twin App: the doctor-Patient via Game and Consultancy	Rahul NS	YIP-Govt. of Kerala	23/01/2020	Students
The twin App: the doctor-Patient via Game and Consultancy	Josna Joseph	YIP-Govt. of Kerala	23/01/2020	Students
The twin App: the doctor-Patient via Game and Consultancy	Ajaml N	YIP-Govt. of Kerala	23/01/2020	Students

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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	IEDC	Kerala Startup Mission	Nil	Nil	Nil

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## 3.3 – Research Publications and Awards

### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Nil	0

### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Chemistry	2	9.83
International	Physics	1	3.23
International	Economics	2	Nill
International	Mathematics	2	Nill
National	History	2	Nill
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
History	4
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Strong hydrogen bonding wide bandgap single crystal for optical and electronic applications	Dr. Bincy IP	Optics and Laser Technology	2019	Nill	MES College Nedumkandam	3
Fuzzy optimization using GH - symmetrically derivative of fuzzy functions	Dr. Lovelymol Sebastian	Kyungpook Mathematical journal	2020	Nill	Dept. of Mathematics, M.E.S College Nedumkandam	Nill
Goal programming approach to solve fractional fuzzy transportation problem using modified S- curve membership	Dr. Lovelymol Sebastian	Mathematical forum	2020	Nill	Dept. of Mathematics, M.E.S College Nedumkandam	Nill

function						
Need of the Hour to Restructure India's Higher Education System	Shyla Hameed	International Journal of Research in Humanities, Arts	2019	Nill	Dept.of Mathematics, M.E.S College Nedumkandam	Nill
General profile of Higher Education Sector in Kerala-in the Privatized Era with Reference to Cost and Subsidies'	Shyla Hameed	International Journal of Research in Humanities, Arts and Literature	2019	Nill	MES College Nedumkandam	Nill
Strain promoted 1,3-dithiolium-4-olate s-alkyne cycloaddition	Jijy E.	Angewandte Chemie International Edition	2019	Nill	Service de Chimie, CEA Saclay, France	9
Self-assembled amphiphilic molecules for highly efficient photocatalytic hydrogen evolution from water.	Nandajan P. C.	Journal of Physical Chemistry C	2020	Nill	IMDEA Nanoscience, Madrid	2
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### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Strong hydrogen bonding wide bandgap single	I.P Bincy	Optics and Laser Technology	2019	3	2	Department of Physics, MES College, N

crystal for optical and						edumkandam , Kerala 685553, India
1.Goal programming approach to solve fractional fuzzy transportation problem using modified S- curve membership function	Dr. Lovelymol Sebastian	Mathematical forum	2020	Nill	Nill	Dept.of Mathematics ,M.E.S College Nedumkandam
2.Fuzzy optimization using GH -symmetrically derivative of fuzzy functions	Dr. Lovelymol Sebastian	Kyungpook Mathematical journal	2020	Nill	Nill	Dept.of Mathematics ,M.E.S College Nedumkandam
Self-assembled amphiphilic molecules for highly efficient photocatalytic hydrogen evolution from water.	Nandajan P. C.	Journal of Physical Chemistry C	2020	6	2	IMDEA Nanoscience, Madrid
Strain promoted 1,3-dithiolium-4-olate s-alkyne cycloaddition	Jijy E.	Angewandte Chemie International Edition	2019	10	6	Service de Chimie, CEA Saclay, France

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### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	8	17	14	9
Presented papers	7	7	1	0
Resource	0	2	0	0



persons			
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### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Koode: A helping hand towards the needy	Dept of Computer science	13	140
Promotion of Gandhian thoughts of Piece	Dept.of computer Science	13	60
Scaffolding abandendend- Akashapparava	Department of Commerce	6	50
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Nil	Nil	Nil	0
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
SWATCH BHARATH	GRAMA PANCHAYATH	SURVEY	1	70
Road safety	KERALA POLICE	TRAFFIC AWARENESS RALLY	1	70
SWATCH BHARATH	GRAMA PANCHAYATH	PAPPINIMEDU CLEANING	1	108
Vimukthi	Excise Dept., Kerala and Vimukthi Club	Awareness Program on Drug Abuse	1	60
WCD-ICDS	WCD-ICDS with College Women's Forum	Content Creation Competition on breast feeding	1	1
Nature Awareness Program	Nature Club and Kerala Forest Dept.	Nature Camp2	2	30
Ozone Day	KSCSTE with Nature Club and Chemistry Dept.	Seminar	4	96

FIRE AND SAFETY	FIRE FORCE	FIRE AND SAFETY AWARENESS PROGRAMME	1	108
SWATCH BHARATH	GRAMA PANCHAYTH	CLOTH COLLECTION AND CARRY BAG MAKING	1	38
SWATCHATHA PROGRAMMES	GRAMA PANCHAYATH	DIGGING OF COMPOST PITS	1	25
<a href="#">View File</a>				

### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Workshop	20	Mes college Nedumkandam	2
Asthra IT Fest	20	Mes college Nedumkandam	2
National Level Workshop on Soft Skill At Hajee Karutha Rawthar Howdia College, Uthamapalayam.	23	Mes college Nedumkandam1	0
Students Research Project	6	0	45
<a href="#">View File</a>			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Research Work	Research Publication	Crystal Research Laboratory, Department of Physics, Anna University, Chennai	01/05/2019	31/03/2020	1
Research Work	Research Publication	Assumption College, Changanassery, Kerala	01/05/2019	31/03/2020	1
Research Work	Research Publication	Service de Chimie, CEA Saclay,	01/05/2019	31/03/2020	1

		France			
Research Work	Students Project	Hajee Karutha Rawther Howdia College Uthamapalayam, Tamil Nadu	13/02/2020	31/03/2020	5
Research work	Research Publication	IMDEA Nanoscience, Madrid	01/05/2019	31/03/2020	1
Research work	M Sc Project	IGCAR Kalppakkam, Tamilnad	01/10/2019	15/03/2020	2
Research work	M Sc Project	CUSAT, Cochin, Kerala	01/10/2019	15/03/2020	1
Research work	M Sc Project	MES Asmabi College, Kodungallur	01/10/2019	15/03/2020	3
Internship	Account Executive	Delma Sebastian Company	06/05/2019	30/05/2019	4
Internship	Account Executive	Jostsna Pillai Co.	06/05/2019	30/05/2019	29
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Cogniz InfoTech, Palarivattom, Cochin	27/06/2020	Skill development of students who undergo BCA programmes in software Development and System Administration	Nil
Kurians Computer Shope, kattapana	27/06/2019	Skill development of students	Nil
Jostsna Pillai Co. chartered accountant	27/06/2019	To facilitate training to student trainees of college and help in providing master trainers on required basis	30
Jain Irrigation Ltd.	28/11/2019	Extension activity:-To support the farmers to install Micro	Nil

Sprinkler  
Irrigation System.

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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
220	47

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Class rooms	Newly Added
Laboratories	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Class rooms	Existing
Seminar Halls	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with Wi-Fi OR LAN	Existing

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### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Delplus Library Software	Fully	2.0	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	14777	3584103	380	173967	15157	3758070
Reference Books	892	225000	56	56500	948	281500
e-Books	1	5400	1	19470	2	24870
e-Journals	32	13200	0	0	32	13200

e-Journals	1	5400	1	19470	2	24870
Digital Database	Nill	Nill	1	19470	1	19470
CD & Video	62	0	18	0	80	0
Library Automation	1	Nill	Nill	Nill	1	Nill
Weeding (hard & soft)	0	0	0	0	0	0
<a href="#">View File</a>						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Shareef K	Module -4 (HY2CMT03), Emergence of Anti-Colonial Movements in Asia and Africa World Bodies	Google Classroom	25/03/2020
Nishad K K	Material Science	Google Classroom	02/12/2019
<a href="#">View File</a>			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	111	3	111	1	0	1	10	40	0
Added	25	1	25	0	0	0	0	0	0
Total	136	4	136	1	0	1	10	40	0

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

40 MBPS/ GBPS
---------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Learning Management System (LMS)	<a href="http://mesnedumkandam.in/index.php/lms/">http://mesnedumkandam.in/index.php/lms/</a>
E-Resources	<a href="http://mesnedumkandam.in/index.php/library-2/">http://mesnedumkandam.in/index.php/library-2/</a>
National Library and Information	

services Infrastructure for Scholarly Content (NLIST))	<a href="http://mesnedumkandam.in/index.php/library-2/">http://mesnedumkandam.in/index.php/library-2/</a>
Digital Books E Resources	<a href="http://mesnedumkandam.in/index.php/library-2/">http://mesnedumkandam.in/index.php/library-2/</a>
Computers	<a href="http://mesnedumkandam.in/index.php/computer-lab/">http://mesnedumkandam.in/index.php/computer-lab/</a>
Sound Mixer	<a href="http://mesnedumkandam.in/index.php/computer-lab/">http://mesnedumkandam.in/index.php/computer-lab/</a>
LCD PROJECTOR	<a href="http://mesnedumkandam.in/wp-content/uploads/2020/02/4.3.1-ICT-report_compressed.pdf">http://mesnedumkandam.in/wp-content/uploads/2020/02/4.3.1-ICT-report_compressed.pdf</a>
HEAD PHONES	<a href="http://mesnedumkandam.in/wp-content/uploads/2020/02/4.3.1-ICT-report_compressed.pdf">http://mesnedumkandam.in/wp-content/uploads/2020/02/4.3.1-ICT-report_compressed.pdf</a>
LED Display	<a href="http://mesnedumkandam.in/wp-content/uploads/2020/02/4.3.1-ICT-report_compressed.pdf">http://mesnedumkandam.in/wp-content/uploads/2020/02/4.3.1-ICT-report_compressed.pdf</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
10	317032	220	Nil

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The institution has well knit policies and procedures on the maintenance and utilization of physical, academic and support facilities, laboratory, library, sports complex, computer and class rooms etc.. The requirements submitted by the departments for the maintenance of physical facilities received twice a year, are met with proper monitoring. Annual Maintenance Contracts are signed with the firms for the maintenance of facilities in the college. The Committee on Maintenance meet at regular intervals. Laboratories are well maintained on strict compliance of policies and procedure to avoid wastage of funds and measures. Purchase orders are given during summer vacation on stock verification reports and requirements from the Departments. The laboratory staff are given necessary inhouse training for ensuring proper use of laboratory equipments. A library committee is functioning in the college for the proper working of the library, the store house of knowledge in the college. The librarian submits the list of books and e books to be purchased in each academic year. The funds from the Government and Management are properly utilized with required monitoring by the top management. The staff council, the statutory body in the college prepares the guidelines for the proper use of academic support facilities. The council make an analysis of functioning of the academic support system. The department of Physical Education is very much

concerned of the enhancement of the sports facilities in the college. Purchase of sports equipments are done on the reports of the Department yearly. The Gymnasium for boys and girls in the hostel, is properly managed by the department. Facilities in Computer laboratory is updated regularly by timely maintenance of the computers. The PG Departments of Computer Science submit to the Principal the requests for the maintenance of computers in the lab. The proper maintenance of class rooms by providing setting arrangements is ensured.

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	MES Silver Jubilee Scholarship	92	276000
Financial Support from Other Sources			
a) National	Post metric 2. state metric 3.Muslim Nadar 4. Hindi 5. C H Muhammed koya 6.Suvarna jubilee	128	944712
b)International	0	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Counseling	10/07/2019	25	Department of Computerscience
Bridge courses	30/06/2019	56	Department of Computerscience
Remedial coaching	18/07/2019	1	Department
Soft skill development	10/06/2019	13	Department of Computerscience
Scientific temper	09/09/2019	30	Walk With Scholar Program, Gvt of Kerala
Effective Communication skill by George Pulikkal	26/10/2019	30	Walk With Scholar Program, Gvt of Kerala
SWOT and review of academic book	25/12/2019	30	Walk With Scholar Program, Gvt of Kerala
Journal article review	18/09/2019	30	Walk With Scholar Program, Gvt of Kerala

Instituiona visit Indian Tuberops Research institute, Shreekarayam	01/01/2020	30	Walk With Scholar Program, Gvt of Kerala
Instituiona visit to research departments of Kerala University	30/01/2020	30	Walk With Scholar Program, Gvt of Kerala
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	WWS	Nill	30	Nill	Nill
2019	IIT JAM in Chemsitry	5	Nill	1	Nill
2019	IIT JAM in Physics	20	Nill	3	Nill
2019	Career in Economics	20	5	Nill	Nill
2019	Scholars Support Programme	Nill	80	Nill	Nill
2020	Career guidance in commerce	Nill	50	Nill	Nill
2020	Career perpectives in Physics	Nill	20	Nill	Nill
2020	Build-up Your Space- a Webinar on 'Career Possibilities for History Students'	Nill	62	Nill	Nill
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	5

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus	Off campus
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Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Manappuram Finance Malayala Manorama Ansons Group of companies	257	28	Amazon Cabal Technologies Talrop Infosys	10	6
<a href="#">View File</a>					

#### 5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	13	B Sc	mathematics	Pavanatma College Murickassery Govt.College Alappuzha, CTE Kumaly M.E.S College Nedumkandam	M Sc
2020	5	BCOM	COMMERCE	1.Marian College Kuttikkanam 2.JPM arts and science College Labbakkada 3.Christ University Bangalore 4.MES college Nedumkandam	Mcom
2020	10	BA	Economics	Govt college kattappana St.thomas college pala Govt. College Koyyayam Maharajas college JPM college lebbakkada	MA
2020	6	BSc	Chemistry	Nill	MSc
2020	14	BCA	Computer Application	MACFAST Thiruvalla, Amal Jyothy, IGNOU, MES college	MCA, MSW, Msc Computer Science, Msc. Data Analytics

Nedumkandam,  
Marian  
College Kutt  
ikkanam, Raja  
giri college  
of social  
science  
Kalamassery

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year  
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	2
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Long Jump Women	College Level	10
Long Jump Men	College Level	12
1500 meter Women	College Level	3
1500 meter Men	College Level	6
400 meter Women	College Level	4
400 meter Men	College Level	8
200 meter Women	College Level	8
200 meter Men	College Level	12
100 meter Women	College Level	8
100 meter Men	College Level	12
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### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Khelo-India participation and All India Inter University	National	1	Nill	12743	Anumol A
2020	All India Inter University	National	1	Nill	12744	Akhila S
2020	All India	National	1	Nill	13201	ArjunAji kumar

	Inter University					
2020	All India Inter University	National	1	Nill	12746	SoniyaKunjumon
2020	All India Inter University	National	1	Nill	Nill	Mariya Vincent
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institution has a formally elected Student Council that conducts the student's union election on the basis of regulation prepared by Mahatma Gandhi University Kottayam. This elected students union consists of Genral Office Bearers such as Chairman, vice chairman, General secretary join secretary, Sports secretary, Arts club secretary, UUC etc. In the departmental level, each department consist student association secretary. The election conduct in presidential mode by electing a representative from each class. These elected class representatives take part in electing all other major office bearers of the students Union. The college always tries to include students in various academic and administrative activities of the college. There are representatives from student in various academic and administrative bodies and committees like IQAC, internal committee for students with disabilities, mess committee, hostel committee etc . College also ensures that the voices of the students are heard in all matters related to the college. The students representatives in these committees and students union act as the platform for the students to address their concerns and present their ideas and suggestions. Students are included in the IQAC committee also. Some of the activities in the college like college day, sports day, arts day Celebration of Republic Day Celebration of Onam, Christmas Festival, regularly conduct under the leadership of students union with faculty supervision.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

5.4.3 – Alumni contribution during the year (in Rupees) :

5.4.4 – Meetings/activities organized by Alumni Association :

#### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

##### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The IQAC of the college was very keen in administering the decentralized and participative management system of governance. Each department has its autonomy in the planning and execution of the curricular, co curricular and extension activities. The College Administrative apex body with the Principal in the lead, Vice Principal, College Council, and IQAC play a vital role in deciding the policy framework for the systematic functioning and progress of the institution. The heads of departments, faculty members and student representatives have their voice of opinion in materializing the policies and plan of action towards the constructive growth of the institution. Heads of the Departments take independent decision in the matters related to department academic calendar, time table, conduct of internal examination, academic tours/visits, extension programmes, organizing workshops and seminars etc. In order to ensure participative management, the Coordinators and faculty in charge of various clubs and forums are selected on a rotation basis. The faculty coordinators along with student coordinators have complete freedom in organizing all the activities. Statutory committees are reconstituted with a senior faculty as its chair person and these committees have utmost freedom to take decisions in the matters related to their area of operation. The College Students Union functions as an interface between the students and the college administration. The Students Union coordinates the arts, sports and other cultural activities of the College. Being the elected representatives of the students, the Students Union is in constant rapport with the Principal, and involves in all matters related to the students.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Students' admission process is carried out through the online Centralised Allotment Process (CAP) of Mahatma Gandhi University, Kottayam. Care has been taken to maintain gender equality and fulfilling the reservation criteria of the state government. Due preference has been given to non native speakers especially the students belong to the Tamil migrants
Industry Interaction / Collaboration	The Campus Placement Cell in collaboration with industry and other placement service agencies coordinates Placement Drives in the college which helps the students to get placed in various vacancy positions. The Entrepreneurial Development Club of the college operates in close touch with the industry in order to inculcate the entrepreneurial skills in students. The E D Club organizes workshops and training sessions with the experts from the Industry. Students are encouraged to participate in internship programmes conducted by industry. Industry Visits are also arranged for the students to

get direct industry experience. The college comes in terms with institutions and agencies on mutual exchange of knowledge and expertise

#### Human Resource Management

The college recruits well qualified and experienced faculty with an eye on enhanced student performance. Faculty development programmes and workshops are organized for the betterment of the faculty. Special training sessions on the latest technologies helped the teaching and non teaching staff to adapt to the new working atmosphere. Staff Welfare Association provides ample opportunity to all staff members to share their views and feedback in matters especially related to them.

#### Library, ICT and Physical Infrastructure / Instrumentation

The college hosts the library of the state of the art facility with a wide array of books, journals, magazines and provides easy access to digital resources. Hands-on training on e-resources and in-depth library training was organized for the newcomers. Library is managed by the Delplus software in which issue of books, return etc. are done using the bar-coded identity card. The library houses Idukki Shelf which is an exclusive collection of the local history of Idukki, in the form of books, periodicals, documents, souvenirs, memoirs, travelogues, legal publications, newspaper clippings, periodical clippings, and rare photographs. The library with the support of the department of History maintains the Idukki Shelf as a most reliable reference source for the students, researchers and for anyone who is interested in studying the local history of the high range district. All departments have ICT enabled classroom arrangements laboratory, seminar hall and conference hall are also fully equipped with ICT facilities

#### Research and Development

The college encourages the faculty members to take up research by providing them with special leaves and other supports. The MES management is very much particular in the research activities of the faculty. A cash award of ten thousand rupees is given to those who complete doctoral research while in service. Special attention has been given to the postgraduate students to carry out their dissertations with a

view to lay a strong foundation on research

#### Examination and Evaluation

The college follows the Mahatma Gandhi University exam schedule for conducting University examinations. The online question paper system of the University has effectively been implemented in the college. Internal exams, quizzes, assignments and seminars are conducted as part of continuous assessment. Rapid-fire questions, MCQ, Unit tests are practised by various departments to assess the learning levels of students that enable them to focus on the students' performance.

#### Teaching and Learning

The college focuses student-centred teaching-learning strictly adhered to Mahatma Gandhi University curriculum. We prepare a proper and functional academic schedule as per the academic calendar of the University at the beginning of the academic year. Rather than regular classroom teaching-learning procedures like discussions, seminars, and assignments, special emphasis has been given to experiential learning and participatory learning. Interactive sessions, field visits, invited lectures, workshops and personality development programme are part of this. Students are also provided with additional learning resources and reference materials related to the topic of discussion. In addition to this, we introduce Gurukul Vigyan Kshethra to bring the students to the ancient Indian mode of learning of the Gurukulas. Gurukul Vigyan Kshethra practices question answer method of learning, ensuring student involvement, thereby nurture the inquisitiveness in students, the essential quality that a student requires

#### Curriculum Development

Being an affiliated college of Mahatma Gandhi University, Kottayam, the college has to follow the curriculum prescribed by the University. Some of our teachers are members of the board of studies of the University. At the time of syllabus revision, the faculty members participate in the syllabus revision workshops and contribute their invaluable suggestions on curriculum development. Besides, we design the

curriculum for the certificate and Add on courses. Special training sessions on Outcome Based Education have been organized aimed at accomplishing the curricular objectives.

#### 6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	The college forms official Whatsapp groups at different levels to facilitate an informal yet effective mode of planning of activities.
Administration	The college administration process go digital and it is managed through the office automation system software Dekatia
Finance and Accounts	All finance and accounts related works of the college operate using the office automation system software Dekatia. Digital signature of Principal is introduced for payment and allowances of employees. Staff salary and related service works are operated through SPARK online system
Student Admission and Support	The college admits the students from the online list given by the University under the Centralized Allotment Process (CAP). Whereas, the formal admission to the college is managed by the admission committee in the college with the help of Dekatia software. Students' internal exam marks, attendance, fees and scholarships etc. are take care of using the office automation system software Dekatia. The library is managed by the Delplus software in which issue of books, return etc. are done using the bar-coded identity card.
Examination	The college conducts university examination as per the Mahatma Gandhi University exam schedule. The college implemented the online question paper system of the University in an effective manner. Internal marks of the students are uploaded in the M G University examination portal from time to time. Faculty members contribute questions from their subjects concerned to the University digital question bank

#### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended	Name of the professional body for	Amount of support
------	-----------------	---------------------------------------	-----------------------------------	-------------------

		for which financial support provided	which membership fee is provided	
No Data Entered/Not Applicable !!!				
No file uploaded.				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Maintain tutorial hour: Understanding students through Enneagram	Nil	29/07/2019	30/07/2019	68	Nil
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Refresher Course	1	01/11/2019	14/12/2020	14
UGC-Sponsored Orientation Program.	1	17/01/2020	06/02/2020	21
UGC-Sponsored Orientation Program	1	03/03/2020	17/08/2020	21
Orientation Course- UGC, MHRD-Kerala university	1	03/01/2020	23/12/2020	21
National Workshop on Statistical Analysis using MS Excel	2	17/12/2019	19/12/2019	3
FDP on Theatric Skills for Effective Teaching	1	18/10/2019	28/10/2019	7
Orientation Program For The Programme	1	16/10/2019	22/10/2019	7



Officers of National Service Schema				
UGC-Sponsored Orientation Program	1	09/01/2020	29/12/2020	21
UGC-Sponsored Orientation Program	1	17/01/2020	06/02/2020	21
Refresher course	1	03/12/2019	16/12/2019	14
<a href="#">View File</a>				

#### 6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	18	Nill	2

#### 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Apart from the general welfare schemes of the Government of kerala, the college forms: Staff Association Fund Salary certificate on request Cultural Forum to express the innate talents of the staff members Annual Staff Tour Salary advance scheme Loan facility</p>	<p>Facility to avail loan Salary certificate on request Training Programmes Admissible Leave</p>	<p>Government scholarships and stipends Concession on tuition fee Free hostel facility for the deserving Cash award for best performer Student Bank- students contribute a nominal amount to the bank and grants loan when required. Book Bank scheme- collects text books from pass out students and supply to the deserving and needy. Students Counseling Centre, Remedial Coaching, SSP, WWS and Students Mentoring Programme. Financial Support in case of Emergency Medical aid to the ill.</p>

### 6.4 – Financial Management and Resource Mobilization

#### 6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Separate audits are performed for both Government and Management accounts to ensure that the financial statements and book of accounts are free from any material misstatements, whether due to fraud or error. The audit of Government sanctioned funds are carried out on three levels: 1. External Chartered Accountant- verifies the utilization of the grants and funds sanctioned by the Government agencies and issues the audit report along with utilization Certificate that are to be produced before the verifying authorities. 2. Deputy directorate of Collegiate Education- conducts annual audit of financial documents related to government fund utilized by the college. 3. Accountant

General- also conducts periodic verification of the utilization of public funds. The daily transactions of management accounts are verified by the Finance committee of the Local Management Committee. Periodical auditing of the management accounts are carried out by the Treasurer, M E S Central Committee. External Auditing Team verifies the financial documents of management accounts and prepares the audit report.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	3400000	New building construction
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

3400000
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## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Nill	Nill	Yes	Internal Audit commite
Administrative	Yes	Directorate of Collegiate Education	Yes	MES Corporate Office

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Support in disciplinary matters Meeting of PTA Arranged at regular intervals. Fund for sports Promotion.
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6.5.3 – Development programmes for support staff (at least three)

1-Loan facility from management. 2- Professional Development Programme. 3- Teachers Orientation Programme.
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

1- IQAC encourage to start Add-on diploma / certificate courses. 2- IQAC initiated to start coaching center for competitive examinations. 3- IQAC initiated to implement outcome based education to improve the teaching-learning process. 4- IQAC took initiative to improve the impact of outreach programmes to the immediate community of the college.
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6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
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2019	Remedial Coaching Program to reduce failure gap and dropout rate.	05/10/2019	05/10/2019	13/03/2020	80
2019	Special mentoring for advanced learners through Walk With Scholar program (WWS).	30/11/2019	13/03/2020	13/03/2020	30
2019	Fosters innovation and creativity in students through exhibitions, seminars, group discussions, study tours, etc	08/01/2020	08/01/2020	10/01/2020	132
2019	Measures to increase the achievements of students in sports and cultural activities in University level.	23/01/2020	23/01/2020	27/01/2020	211
2019	IQAC encourage the teachers adopt a Blended learning method to ensure high impact teaching learning practices.	09/03/2020	09/03/2020	09/03/2020	56
2019	Nourishes eco-aesthetic concerns through the activities	05/06/2019	05/06/2019	13/03/2020	338

	of NSS, NCC, Nature club, Readers Forum etc.				
2019	IQAC proposed to form a Competitive Examination Coaching centre in the college campus	06/07/2019	14/03/2020	14/03/2020	20
2019	Promotion of sustainable development	03/09/2019	03/09/2019	03/09/2019	35
2019	Trained the teachers to use online learning platform as content creators.	07/09/2019	07/09/2019	07/09/2019	56
2019	Implementing Outcome Based Education in college	10/10/2019	10/10/2019	10/10/2019	56
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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
WEBINAR ON GENDER EQUALITY AND WOMEN'S RIGHT	15/09/2020	15/09/2020	78	Nill
WEBINAR ON LEGAL PROTECTION FOR WOMEN	21/11/2020	21/11/2020	78	Nill

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
• 5 of the total lights are supported by the Solar Plant • More Tube lights have been converted into LED lights • More Herbal Medicinal plants have been

added • Environmental Consciousness about energy saving, reducing plastic usage, planting more trees, saving water resources have been promoted in the College.

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	No	Nil
Ramp/Rails	Yes	1
Braille Software/facilities	Yes	1
Rest Rooms	Yes	Nil
Scribes for examination	Yes	5
Special skill development for differently abled students	No	Nil

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	11/08/2020	7	Flood Relief Material Collection by NSS	Flood Relief Material Collection by NSS	100
2020	1	1	08/01/2020	3	Energy Conservation	Energy Conservation strategies	150
2020	1	1	08/01/2020	3	Automatic plant irrigation system using Microcontroller	Automatic irrigation system for Cardamom Plantation area through detecting Moisture content	7
2019	1	1	03/08/2020	45	Survey -after flood and landslide	Developmental problems of Idukki district	30

2020	1	1	16/09/2020	1	Awareness Programme Ozone for Life	Nature protection	24
<a href="#">View File</a>							

#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of Conduct for Students	03/06/2019	The code of conduct for students is published in the college handbook and uploaded on the college website. A separate Committee which includes faculty members with monitors the implementation of the predetermined code of conduct. Heads of department and Tutors regularly remind the students about the rules and regulations.
Code of Conduct for Hostel	03/06/2019	The code of conduct for Girls Hostel is published in the college handbook and uploaded on the college website. A separate Committee which includes faculty members and matron monitors the implementation of the predetermined code of conduct.
Code of Conduct for teachers	03/06/2019	The code of conduct for the teachers is uploaded in the college website. The implementation of these code conduct monitors by heads of Department and Principal.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Collecting funds for meeting surgery expense of a student mothers surgery	05/08/2019	12/08/2019	800
Hiroshima day observed by conducting collage contest on anti-war theme	06/08/2019	06/08/2019	30

Palliative care programmes	03/06/2019	31/03/2020	70
Visit Orphanage and Old Age Home	29/08/2019	21/02/2020	30
Gandhi smruthi conducted	06/03/2020	06/03/2020	75
Teachers day celebration	05/09/2019	05/09/2019	100
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. ESTABLISHMENT OF WASTE BASKETS 2. COLLECTED WASTE PLASTIC BOTTLES AND PLANTED SAPPLINGS IN IT 3. TO REDUCE THE USE OF PLASTICS, DISTRIBUTE REUSABLE CARRY BAGS 4. PLANTED TREES ON ENVIRONMENT DAY 5. TO MAKE THE CAMPUS ECO FRIENDLY, CREATED A GARDEN

### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

**BEST PRACTICE 1 PACE - Programme on Achieving Success in Competitive Examinations** Objectives of the Practice Opportunity: Provide opportunity to anyone to get trained for appearing in competitive examinations. Save time: Provide job training to anyone irrespective of student or employee. Provide facility to get trained along with their education or work. Break Barriers: The mode of training under PACE is purely designed on online. Anyone at any age can participate in training either from home or from work place or from their educational institutions. Social Equality: Provide free training to all without insisting any criteria except a selection test. This will ensure social equality. The Context MES College Nedumkandam has started free Civil Service Coaching since 2017 to its ongoing students alone. A systematic training to interested students of this College was started to provide during Saturdays and Sundays under the coordinator ship of Dr. Nishad K K , Assistant Professor, Department of Physics who vividly formulated the schedules and select suitable faculties. With the support of Prof. A M Rasheed, Principal of this College, the Centre became great success. The immense participation from the part of students forced us to think about the necessity of establishing a substantial support facility to all those students who truly work hard for getting a permanent job either in government sector or in private sector. Thus, in a meeting held at Principal's Office, it was decided to establish a regular mechanism for preparing students to face all competitive examinations under the name, PACE - Programme for Achieving Success in Competitive Examinations in the supervision of College Library. The Practice Phase I: Constituted a Governing Body of Directors to plan, design and execute the curriculum, pedagogy, selection of faculties etc... Phase II : Introduce MESCO , a new programme under project PACE which give concentration of Indian Civil Service Training. Phase III : Gave advertisement through social medias to invite applications. Phase IV : A selection was made from the applicants on the basis of a test. Phase V : Started two whatsAap groups Phase VI : Teaching learning processes are doing through these groups. The selection of new students to new batches will continue in every year. Will design new programmes under PACE to include more category of students . Evidence of Success The huge number of applications received for starting second batch, the participation of students in the whole classes, mock tests, quizzes, their feedbacks, and positive responds without compelling any rules are the evidence of success. Problems Encountered and Resources Required Students from poor back ground have limited opportunity to buy a high performing android mobile phone. Issues related with Internet

Network Coverage to some remote places

**Notes (Optional)**

The ratio of representation from the State of Kerala in the Indian Civil Service was very poor. Students from Kerala had believed that the Civil Service is a gigantic Rocket Science since the training and awareness facility available here were very complicated and costly. Existing conventional Job Coaching Centers required physical regular classes and high payments which in turn pushed the students to throw away their dreams. Thus we plan to start an online job training centre at free of cost for all.

**BEST PRACTICE 2**

**MES Centre for Sustainable Development**

**Objectives of the Practice**

1. Find a sustainable solution to the acute water scarcity in cardamom cultivation.
2. Adopt effective water conservation method.
3. Ensure high yield in cardamom cultivation.
4. Implement cost effective groundwater recharge system.

**The Context**

M E S College Nedumkandam locates in the midst of a great expanse of the lush green cardamom plantations. Cardamom, known as "Queen of Spices," is one of the most exotic and highly-priced spices. The geographical and climatic conditions of the High Ranges of Idukki are ideal for the best quality cardamom, which make them highly unique in the international market. But climate change and erratic rain patterns have made things worse for cardamom, resulting in a substantial decline of cardamom produce. The significant changes in climate, particularly increasing temperature and decreasing humidity affect the plantations very badly in recent years. Even a slight change in climate has a substantial influence on agriculture development in the district. In order to fix an immediate solution for this alarming situation, The UNAI Aspire Chapter of MES College Nedumkandam proposes MES Centre for Sustainable Development. The Centre aims at ensuring a sustainable yield in cardamom amidst the issues pertaining to the scarcity of water, energy consumption, varying geographical features, climatic changes and production expenses. It also focuses on recharging groundwater resources on a cost-effective method. The MES Centre for Sustainable Development envisions to function on a collaborative effort of the College, farmers, government agencies and technical support institutions to optimise the use of water in cultivation and to recharge groundwater resources.

**The Practice**

The MES Centre for Sustainable Development, as an initial step, has formed a Farmers Collective, to address various issues pertaining to cardamom cultivation especially availability of water. The College conducted a one day seminar on the topic "Effective Water management in Cardamom plantations" on 3rd September 2019. Dr. Abdul Hakkim V M, Professor, Kerala Agricultural University and Dr. K. Devaraja, Senior Scientist, University of Agricultural Sciences, Bangaluru led the sessions on Micro Sprinkler Irrigation and Recharging Bore wells Using Rain Water respectively. The conference concluded to implement micro sprinkler irrigation which is the most appropriate irrigation system for cardamom plantations. This initiative aims at effective water management in cardamom plantations with an eye to increase the yield as well. The Centre for Water Resources, Development and Management, Kozhikode (CWRDM) has extended their technical support in our initiative. We also aim at providing the labourers Skill Training in operating and maintaining the technology assisted irrigation system, which will help them to become skilled labourers and at the same time they will get accommodate with micro sprinkler irrigation system.

**Evidence of Success**

A considerable number of farmers implemented the Micro sprinkler irrigation system. They shared their successful experience of effective water conservation using Micro sprinkler irrigation system comparing to the conventional hose irrigation. Some have installed bore well-recharging units of roof top water at their house.

**Problems Encountered and Resources Required**

High cost, scarce availability of equipments, and the lack of skilled labourers cause a serious issue to the farmers to switch to the micro sprinkler irrigation system.

**Notes**

The MES Centre for Sustainable Development has submitted a project proposal on "Automated Micro Sprinkler Irrigation and Fertigation System and Ground Water Recharge" to the United Nations Academic Impact for their expert intervention on sustainable water



management. A proposal seeking financial assistance for installing Micro Sprinkler Irrigation and Fertigation System has submitted to the authorities concerned. BEST PRACTICE III IDUKKI SHELF: The Local History Zone Objectives of the Practice District Repository: Build up a complete reference source for Idukki District, the district having high significance in the history of Kerala and in which our college is situated. Authenticity: Construct a reliable reference source for the students, researchers, media men, writers and anyone who are interested in the study of Idukki District. Accessibility: Reduce the time, cost, effort etc... of the users of information on Idukki district especially research scholars by constructing an exhaustive single point of reference and providing expeditious-pinpoint access to maximum possible sources at free of cost. The Context The District Idukki is a High-range. Mountains, Hills, Rivers and Forests give this district a variety appearance, climate, ecology and environment. Idukki is famous among the common people as well as educational people in India for its mountain hills, tea, cardamom, pepper and coffee plantations, huge dams both for irrigation and electricity, reserved forests, variety of nice-looking fauna and flora and so on. Common men in India are attracted by the nature, the climate, the terrain etc... while the academicians are interested in the history of civilization, migration, colonial and post colonial activities, the tribal, past constructions, specialised species of plants etc.... All these made the importance of District Idukki in the History of Kerala and India is a remarkable one. As a Higher Education Institution (HEI) located in the middle of this District, we decided to institute an exclusive bibliographic reference source on Idukki District to meet the crying demands from different groups of people. The result of that strong decision is Idukki Shelf: The Local History Zone. The Practice Phase I: The Department of History and College Library unanimously undertook the challenge. Phase II: Students of PG History and UG Final History has collected the then existing printed Books, Periodicals, Documents, Souvenirs by churches in the region, Memoirs, Travelogues, Legal publications, News Paper Clippings, Periodical Clippings, Photographs which has importance in the history of Idukki. Phase III: College Library provides a suitable area for organising the collection to ensure easy access. Classify the collection using DDC Scheme and prepared a bibliographic record for it. Phase IV: The process of acquisition of documents with the collection is continuing. The project reports by PG students, Department of History on Idukki is regularly adding

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://mesnedumkandam.in/index.php/igac/>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

MES College Nedumkandam since its inception has been functioning with an objective of providing quality education rooted in professional as well as social development by instilling multidisciplinary skills and value added education. We uphold the holistic development of the students as well as the community by fulfilling the vision and mission of the college whereby strictly following the guidelines of the University for imparting quality and excellence in teaching, learning, research and extension. Since the college is situating at the high Ranges geographically distant from the metropolitan cities, we provide all the possible and best curricular and co-curricular opportunities for the student community. As a socially committed and futuristic institution, our college engages many socio-cultural transactions inorder to empower the beneficiaries of the institution. Idukki as a land of spices abound with cardamom and tea plantations, majority of the population depends their

livelihood on agriculture and lion share of our students belong to agricultural background. More than that, they can't afford the advancements of the modern, -tecnological era, hence we work for the educational, social and economic advancement of the people to improve the standard and quality of living by proving a platform for the students on multidisciplinary and methodological skill development and cross - disciplinary academic programmes. We have introduced many innovative and sustainable agricultural practices to the farming community under the guidance of UNAI, especially on the use of Micro-Sprinklers in the plantations in order to cope up the scarcity of water that seems to be a major threat to them. Another focal area where the college extends scaffolding is the 'marginalized' sections of the society. Idukki is known for the scheduled tribes especially the tribal population 'Mannans' who still have kingship system and leading a distinctive life style. We tried to establish various empowerment programmes to broaden their horizon of knowledge, healthcare, and livelihood etc. We initiated a library in the tribal settlement and providing awareness programmes on health and hygiene. We are passionate about making a positive impact on them and make them enter into the mainstream of the society. We had students from 'Mannan' tribal settlement and we are giving all possible guidance and help for them to enroll more into the field of education. Our college has strong wings of clubs and forums that continuously engage in social dealings. We had built a house and other maintenance help for the needy, and giving healthcare facilities for the backward sections of the society. We could set up a library for the prisoners in the sub jail of Muttom and instilled the values of humanity in the minds of the students. By engaging all these activities we are driven to deliver the mission of our college and make education fruitful for the individual and to society at large. We have a congenial working atmosphere for the faculty members and they could also contribute well to the enrichment of the socio-cultural transactions. As our college belongs to an ecologically fragile land, we focus more on sustainable development and give awareness to the community regarding

Provide the weblink of the institution

<http://mesnedumkandam.in/index.php/igac/>

## 8.Future Plans of Actions for Next Academic Year

Curricular aspects ? To introduce value added/Certificate/diploma Courses in ? Certificate course Data analysis ? Electronic Equipment and Maintenance ? Add on courses in Tally GST ? Certificate course Eco-tourism in Idukki ? Certificate course Material Characterization technique etc Teaching learning and evaluation ? To increase the technology enabled teaching learning process ? Encourage faculty members to use e-learning facilities and to make the students familiar with online teaching and learning. ? To implement the outcome based education (OBE) Research Innovation and extension ? More number of minor and major projects and teacher fellowships for the faculty members. ? To organize National/International conference on theme of research. ? Ensure the collaboration and extension Infra structure and earning recourses ? To initiate more developmental strategy to overcome the infrastructural shortcoming ? Ensure more digital resources in the central library. ? Ensure facilities for online teaching learning process such as video centre, LMS, online classroom, mobile app etc Students support and progression ? More number of students support program ? To conduct more number of capacity building and personality development programme for students. ? Special focus on training and placement cell ? To conduct more number of career guidance programme Governance, leadership and Management ? To ensure more number of faculty support programme ? To participate in NIRF Institutional values and best practices ? To ensure more number of Project Focused on Environmental Consciousness and Sustainability

