

Vellalar College for Women [Autonomous]

Erode- 638 012

Academic Audit Report 2016-2017

Name of the Department: PG Department of Mathematics (SF)

Date: 16.12.2017

Name, Designation and Address of Academic Audit Experts:

1. Dr. Ramajayam Sahadevan,
Former Director & Head,
Ramanujan Institute for Advanced
Study in Mathematics,
University of Madras,
Chennai, Tamil Nadu – 600005.
Mobile No: 94448 35592.
Email: ramajayamsaha@gmail.com

2. Dr. K.M. Kathiresan
Director,
Centre for Graph Theory,
Ayyanadar Janaki Ammal College,
Sivakasi, Tamil Nadu.
Mobile No: 9483907450
Email: kathir2esan@yahoo.com

Overall suggestions:

Overall Remark: 1) Faculty members are active and students friendly.
2) Number of credits may be reduced for elective papers.

Suggestions

- 1) Encouraged to apply for Minor Research Project
- 2) Suggested to modify the pattern of sessional Test question papers along the lines of NET.
- 3) Suggested to publish research articles in peer reviewed journals with high impact factor.

R. Sahadevan
16.12.2017

Dr. Kathir
16/12/17

SWOC Analysis:

Strength:

- Sincere and committed faculty
- Introduction of Math lab oriented curriculum with practical sessions
- Interface with learned and erudite academicians from reputed institutions
- Conducting CSIR-NET/SET Coaching classes
- Availability of free offline video lectures in mathematics in Math lab such as MIT open courseware materials, open access journal, Khan Academy video tutorials on maths and science, etc.

Weakness:

- Lack of UGC Sponsored conferences / seminars
- Insufficiency of coaching classes for TNPSC/IIT – JEE /GATE
- Lack of impetus in offering consultancy services
- Shortage of industry/ institution links

Opportunities:

- Choice based innovative learning system
- Enhancement of mathematical skill
- Jobs in IT fields, software companies
- Abundant options in higher studies and research

Challenges:

- To spur on the students to participate in extracurricular activities
- To enhance students in connecting areas of mathematics with its applications
- To create ability to deal with highly abstract concepts
- To provide more opportunities for the students to have hands -on industry exposures

Basic Practice(s)/ Innovations of the Department:

- Faculty prepares question papers using Latex software
- The department publishes newsletter “Math Maze” every year since 2007
- Celebrating the great mathematician Ramanujan’s Birthday by conducting mathematics exhibition “Math Expo” from 2013 onwards

- Usage of free open source software like R, SAGE, SCILAB, GEOGEBRA, etc sustains interest of students in learning mathematics
- Workshop on free and open source software like C, C++, MATLAB, LIBRE OFFICE through spoken tutorial projects is organized for all the students by IIT, Mumbai

Suggestion on the Future Plan of the Department:

- To organize international conferences
- To receive funding from various agencies like NBHM/UGC/CSIR/Science Academician to organize workshop /conference/seminar
- To crack CSIR-NET/SET examination
- To receive UGC Major research projects

G. Than 16-12-17
Signature of the HOD with seal

(G. Thangendhi)

Check List for the Academic Audit 2016-2017

Criterion	Items	Verification Yes/No	Suggestions for improvement
I. Curriculum	a) Copy of the syllabus	yes	
	b) Changes incorporated (if any) to be specified	yes	
II. Curriculum Transaction	E-learning modules	→ yes	
	Project work UG/PG	→ yes	
	Student support-remedial coaching	→ yes	
	Parents meeting-evaluation of student's progress	→ yes	
	Feedback from students	→ yes	→ consolidated programme may be provided HOD
	Steps taken on the feedback	→ yes	
III. Faculty profile	Projects completed/ on-going	MOP-2 completed	
	Seminars/ Conferences. attended	yes	
	Papers/ articles/ books published	Reasonable number of articles published	
	FDP/ RC/ OC/ Training Program/ Workshop	yes	
	Preparation of E-learning materials/ Content	Available for few subjects	To increase to all papers
	Acted as resource persons	yes	
	M.phil & Ph.D awarded	Ph.D. (2) Awarded	
IV. Profiles of students	Demand ratio (Applications received Vs Sanctioned Strength)	SR: yes	
	Students involvement in extra-curricular & Co-curricular activities	yes	
	Study tour/ Industrial visits/ Exhibitions/ Internship/ Training		Encouraged to go to study tour
	Achievements	yes	

V. Infrastructure in the Department	No. of computers-for teachers	4	A few more is needed.
	No. of computers- for students	66	
	No. of computers- for research scholars	Available adequately	
VI. Activities of the Department	MoUs signed	NO	
	Consultancy	NO	
	Guest lectures	yes	
	Conferences/ Seminars/ Workshops conducted	yes	
	Extension activity	yes	
	Interaction with industry	NO	
	Magazine/ Newsletters	yes	
	Department Association	yes	
VII. Documents of activities of Club/ Cell/ committee/ NSS/ NCC	Placement	yes	
		NO	

Uploading of Google Forms should be updated ✓

CONSOLIDATED DEPARTMENT INPUT

S.No.	Particulars	Category	Total	
1	No. of faculty members in the department		21 ✓	
2	No. of faculty members who have cleared NET/JRE and SET	--	1 ✓	
3	No. of FDP/ Orientation/ Refresher/Retraining attended	National	1 ✓	
		International		
4	No of FDP/ Retraining organized by dept	--		
5	No. of faculty involved in curriculum development (member of B.O.S)	National/State level	5 ✓	
		International		
6	No. of publications in peer reviewed journals	National/State level	2 ✓	
		International		
7	No. of books written / edited	National/State level	- ✓	
		International	- ✓	
8	No. of seminars/conferences/workshops organized <i>Seminar-2 Conference-1 State level workshop-2</i>	National/State level	5 ✓	
		International	- ✓	
9	No. of proceedings of seminars/conferences published	National/State level	4 ✓	
		International		
10	No. of papers presented in conferences / seminars	National/State level	10 ✓	
		International	4 ✓	
11	No. of participations in conferences / seminars / workshops / <i>Symposia</i> (without presenting papers)	National/State level	28+1 ✓	
		International	9+2 ✓	
12	No. of faculty members acted as resource persons	No. of faculty members	3 ✓	
		No. of events	10 ✓	
13	No. of faculty members in committees, editorial boards, etc.	Journals	National	- ✓
			International	- ✓
		Conferences	National	- ✓
			International	- ✓
14	No. of awards / recognitions received by the	Faculty Members	- ✓	
		Students <i>Cash Award</i>	5 ✓	
15	No. of Eminent Academicians, Scientists / visitors to the dept.	--	10 ✓	
16	No. of minor / major / other research projects	Minor	2 ✓ (Completed)	
		Major	- ✓	
		Others	- ✓	

17	Research guidance – M.Phil.	Awarded	5	✓	
		Pursuing	7	✓	
18	Research guidance – Ph.D.	Awarded	–	✓	
		Pursuing	–	✓	
19	No. of Rank holders	UG	4	✓	
		PG	3	✓	
20	No. of students placed	UG & PG	14	✓	
21	a) No. of students participated in sports/ cultural/ other events	Events	State	National	176
		Sports	13	–	
		Games	2	–	
		Cultural	2	–	
		Other events	–	–	
	b) No of medals/ awards won by students	Events	State	National	83
		Sports	44	1	
		Games	9	–	
		Cultural	6	–	
		Other events	23	–	
22	No. of students who have become entrepreneurs /self-employed	--	3	✓	
23	No. of students cleared NET/SET/GATE/Civil Services, etc.	--	1		
24	No. of publications/ paper presented by students Paper presented Publications college Magazine	--	40 4	✓	
25	Funds received by the Department from the management for conducting seminars, workshop & special lecture	Rs. 61,021		✓	

Date : 16.12.2017

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16.12.17

Head of the Department

Vellalar College for Women [Autonomous]

Erode- 638 012

Academic Audit Report 2016-2017

Name of the Department: BOTANY

Date: 15.12.2017

Name and Designation of Academic Audit Member:

Dr. R. KANNAN
Associate Professor & Head
Department of Botany
MGM College, Pollachi-1

Overall suggestions:

It is a pleasant experience to audit the department for the academic and administrative activities. It is highly satisfactory to observe the implementation and outcome of the activities. I would like to give following suggestions to strengthen the department in various respects.

- The implementation of CBCS is ensured in the curriculum
- The contents of the syllabi are highly relevant and updated.
- Introduction of more number of skill based papers shows the faculty strength in the department
- The allocation of credits, hours (contact + exam) and marks for the part IV papers needs review so as to match to the curricular design given by the TANSHE.
- More ^(like mobile apps & animated lectures, etc.) ICT enabled teaching, learning and evaluation methodologies may be introduced.
- Faculty members are to be motivated and encouraged to apply for funded projects from other agencies (except UGC) too.
- Consultancy services may be extended on charging money.

JMM
15/12/17
Dr. R. Kannan

SWOC Analysis:

- Strength: * Received 2 Minor Research Projects sponsored by UGC
* Faculty attended a Summer Fellowship Programme at Lucknow, UP and 83rd Annual Meeting of IASc at Shillong, Meghalaya.
* Faculty organised Science Academies Lecture Workshop.
* Advanced smart class room Faculty with Interactive Board.

Weakness:

- * Lack of Major Research Projects & Funds.
- * Lack of Consultancy Services.

Opportunities: * To establish a biofertilizer cultivation unit

Challenges:

- * To establish a Digital herbarium
- * To establish a Bioinformatics Lab.

Basic Practice(s)/ Innovations of the Department:

- * "A Day - A Plant" - An innovative method introduced to create awareness about the binomial and medicinal uses of wild plants.

Suggestion on the Future Plan of the Department:

- The department is rich in research resource taking up
- The faculty members are interested in research.
- The syllabi framed is recent in its nature
- The future plan proposed is worthy of imparting knowledge on the local flora.

MP

Signature of the HoD with seal

External Audit 15/11/17

Dr. R. KANWAR
Associate Professor & Head
Dept. of Botany
VGM College,
POLLACHI-1

Check List for the Academic Audit 2016-2017

Criterion	Items	Verification Yes/No	Suggestions for improvement
I. Curriculum	a) Copy of the syllabus	Yes	-
	b) Changes incorporated (if any) to be specified	Yes	-
II. Curriculum Transaction	E-learning modules	Yes	More ICT enabled practices required
	Project work UG/PG	Yes	
	Student support-remedial coaching	Yes	
	Parents meeting-evaluation of student's progress	Yes	
	Feedback from students	Yes	
	Steps taken on the feedback	Yes	
III. Faculty profile	Projects completed/ on-going	Yes	More projects may be undertaken
	Seminars/ Conferences attended	Yes	
	Papers/ articles/ books published	Yes	-
	FDP/ RC/ OC/ Training Program/ Workshop	Yes	-
	Preparation of E-learning materials/ Content	Yes	Needs to be strengthened
	Acted as resource persons	Yes	-
	M.phil & Ph.D awarded	Yes	-
IV. Profiles of students	Demand ratio (Applications received Vs Sanctioned Strength)	Yes (1:5)	-
	Students involvement in extra-curricular & Co-curricular activities	Yes	-
	Study tour/ Industrial visits/ Exhibitions/ Internship/ Training	Yes	-
	Achievements	Yes	-

V. Infrastructure in the Department	No. of computers-for teachers	YES (15)	-
	No. of computers- for students	YES (50)	-
	No. of computers- for research scholars	YES (1)	Two more computers may be given
VI. Activities of the Department	MoUs signed	YES	
	Consultancy	YES (free)	Funds may be raised - may be charged
	Guest lectures	YES	-
	Conferences/ Seminars/ Workshops conducted	YES	More number of sponsored seminars may be conducted
	Extension activity	YES	More CSR activities needed
	Interaction with industry	YES NO	} efforts required
	Magazine/ Newsletters	NO	
	Department Association	YES	-
	Placement	YES	-
	VII. Documents of activities of Club/ Cell/ committee/ NSS/ NCC	Enviro. club	YES
Green society		YES	-
		YES	-

Uploading of Google Forms should be updated

Jms
15/12/17

CONSOLIDATED DEPARTMENT INPUT

S.No.	Particulars	Category	Total	
1	No. of faculty members in the department	<i>Aicteel</i>	10	
		<i>Adhoc</i>	1	
2	No. of faculty members who have cleared NET/JRF and SET	--		
3	No. of FDP/ Orientation/ Refresher/Retraining attended	National	11	
		International		
4	No of FDP/ Retraining organized by dept	--	1	
5	No. of faculty involved in curriculum development (member of B.O.S)	National/State level	10	
		International		
6	No. of publications in peer reviewed journals	National/State level	28 + 17	
		International		
7	No. of books written / edited	National/State level		
		International		
8	No. of seminars/conferences/workshops organized	National/State level	5	
		International		
9	No. of proceedings of seminars/conferences published	National/State level		
		International		
10	No. of papers presented in conferences / seminars	National/State level	15	
		International		
11	No. of participations in conferences / seminars / workshops (without presenting papers)	National/State level		
		International		
12	No. of faculty members acted as resource persons	No. of faculty members	3	
		No. of events	3	
13	No. of faculty members in committees, editorial boards, etc.	Journals	National	
			International	2
		Conferences	National	
			International	
14	No. of awards / recognitions received by the	Faculty Members		
		Students		
15	No. of Eminent Academicians, Scientists / visitors to the dept.	--	8	
16	No. of minor / major / other research projects	Minor	2	
		Major		
		Others		

17	Research guidance – M.Phil.	Awarded		5
		Pursuing		6
18	Research guidance – Ph.D.	Awarded		–
		Pursuing		8
19	No. of Rank holders	UG		2
		PG		2
20	No. of students placed	UG & PG		14 + 1
21	a) No. of students participated in sports/ cultural/ other events	Events	State	National
		Sports	19	–
		Games	–	–
		Cultural	3	–
		Other events	11	–
	b) No of medals/ awards won by students	Events	State	National
		Sports	–	–
		Games	–	–
		Cultural	–	–
		Other events	–	–
22	No. of students who have become entrepreneurs /self-employed	–		
23	No. of students cleared NET/SET/GATE/Civil Services, etc.	–		
24	No. of publications/ paper presented by students	–		
25	Funds received by the Department	Enclosed		

Date : 15.12.17


Head of the Department

Jmw
15/12/17