



**YOGI VEMANA UNIVERSITY: KADAPA.  
ANDHRA PRADESH**

**PROFORMA FOR ACADEMIC AUDIT**

**1. Basic Information**

1.1. Name of the Department : Materials science and Nanotechnology

1.2. Year of Establishment : 2009

1.3. Number of teaching staff :

Professor	01
Associate Professor	
Assistant Professor	<b>04</b>
Academic Consultants	

1.4. Number of non-teaching and technical staff :

Non-teaching staff	02
Technical staff	

1.5. Programmes offered :

Degree	No.
UG	
PG	M.Sc., in Materials science and Nanotechnology
PG.Diploma	

Ph.D.	Ph.D. in Materials science and Nanotechnology
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## 2. Student enrollment/ Attendance

### 2.1. Number of applications received and students admitted

Program mme	2016-2017		2017-2018	
	Received	Admitted	Received	Admitted
UG				
PG	<b>108</b>	<b>15</b>	<b>1</b>	<b>08</b>
PG. Diploma				

2.2. Is the record of attendance maintained for all the courses offered by the Department for the last two years? : YES

2.3. Number of students who lacked the required percentage of attendance in the last two years : NIL

## 3. Curricular Aspects

3.1. Has the curriculum been updated (Once in two years)? : Yes

3.2. If 'No', specify the reasons :

3.3. If 'Yes', list the percentage of syllabus changes made : 15%

3.4. Have the changes been made in tune with the feedback of the students/employers/alumni? : YES

3.5. Whether skill/employability based courses have been included or not: YES

## 4. Time-table and Workload

4.1. Are copies of the timetable for all courses offered by the department for the last two years maintained? : Yes

4.2. Has provision been made for UG/PG student seminar(s) in the timetable? : Yes

4.3. Are details of seminar presentation for the current

Semester available? : Yes

4.4. Total number of teaching hours of the Faculty/  
Department/Centre : 36+36 = 72

Year	Semester	Total No. of contact hours/week	Total No. of Theory hours	Total No. of Practicals/Labs hours
2016-17	Odd	36	16 + 2	18
	Even	36	16 + 2	18
2017-18	Odd	36	16 + 2	18
	Even	36	16 + 2	18

4.5. Average no. of contact hours / week /faculty member : Asso Prof – 14,  
Asst. Prof -16; Prof -14;

4.6. Average no. of hours devoted for research including project  
Guidance/week/faculty member : 10 h/week

4.7. Number of hours devoted for Extension Activities in a week  
: 1 h/week

## 5. Internal Assessment

5.1. Where the Internal examination held as per the schedule? : Yes

5.2. If 'No', please specify the reason :

5.3. Average number of days within which answer papers were returned  
to the students after evaluation : 14 days

5.4. Are Internal examination records maintained for all courses offered by  
the Faculty/Department? : Yes

## 6. Outreach programmes in association with NSS unit. if any

6.1. Does the department participated in outreach programme (details may  
be provided ) : YES

6.2. Number of students participated in this programme : 34



## **7. Student support activities**

- 7.1. Does the Department have any student Support activity? : Yes
- 7.2. If 'No', specify the reasons :
- 7.3. Are the records of such activity maintained? : YES
- 7.4. Number of students received / receiving financial assistance from the government: 34
- 7.5. Number of field visit / industrial visit made / student projects arranged by the department with University permission :
- 7.6. Number of students selected for summer internship/ internship. : 08
- 7.7. Number of popular lectures delivered by subject experts in the department. : 03
- 7.8. Initiatives taken for remedial programme for slow learners : YES
- 7.9. How many students have participated in national level Sports meet. : Nil
- 7.10. No. of National/State level awards won by the students :
- 7.12. Whether student feedback is obtained for all courses : YES
- 7.13. Any opportunity is given to enhance communication skills of the students: YES

## **8. Doctoral Programmes**

- 8.1. Number of Scholars admitted : 03
- 8.2. Is admission for Ph.D. done as per UGC norms : YES
- 8.3. Number of Research scholars getting financial Assistance Provide details : 05
- 8.4. Number of Ph.D.'s awarded in last two years : 05
- 8.5. Have you introduced coursework for Ph.D.? as per UGC norms: YES

8.6. Do you insist on Plagiarism check : YES

8.7. Are research pre-synopsis presentation conducted at the Department level? : YES

8.8. Whether plagiarism certificate is obtained before submission of Ph.D. thesis : YES

## 9. Research Activities

9.1. Number of research proposals sent by the faculty members to various agencies during the last two years : 04

9.2. Number of research projects sanctioned during the last two years: 01

9.3. Total funds mobilized through projects in the last two years: 42.05 lakh

9.4. Number of ongoing sponsored projects in the Department during the last two years : 03

9.5. Has the Department applied for FIST : No

9.6. No. of collaborative projects with other Institutions/Industries : 02

## 10. Seminars/Conferences / webinars

10.1. Number of Seminars/ Conferences/ webinars Organized by the Faculty/Department in the last two years:

National : 01

International :

10.2. How many international visits were made by the Faculty members in the last two years (show Faculty, Country visited and purpose in a tabulated form) : Nil

## 11. Research

11.1. Number of books and chapters in edited volumes Publications in the last two years : 01

11.2. Number of Research papers Published in the last two years: 36

11.3. Highest impact factor of the article published in last two years : 9.02



11.5: Has the Department/Faculty applied/granted for any patent : Yes

If Yes: give details

2.	V.Durga Kumari, M.Subrahmanyam, B.Srinivas, G.Sadanandam, M.V.Shankar, B.Syamasundar, M.Mamatha Kumari, D.Praveen Kumar, CuO/TiO <sub>2</sub> nanocomposite photocatalyst for hydrogen production, process for the preparation there of. <b>India Patent</b> No. 302246, 20181016.
1.	V.Durga Kumari, M.Subrahmanyam, B.Srinivas, G.Sadanandam, M.V.Shankar, B.Syamasundar, M.Mamatha Kumari, D.Praveen Kumar, CuO/TiO <sub>2</sub> nanocomposite photocatalyst for hydrogen production, process for the preparation there of. <b>US Patent</b> No. US20160045908 A1 20160218; US9776162 B2 20171003.

## 12. Any Others

12.1 Details of awards/recognition won by the staff in the last two years : 02

12.2. Major contribution in the extension domain : Yes. Participation in out-reach program for community development through NSS cell

12.3. How many MoU's have been signed in the last three years and with whom? (show in tabular form)

### IQAC Remarks:

- Publish text book on nanotechnology for beginners.
- International conferences needs to be conducted annually.

  
Director, IQAC, 22.08.2018

DIRECTOR  
Internal Quality Assurance Cell (IQAC)  
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\* IPR should be improved

\* Industrial collaborations are encouraged



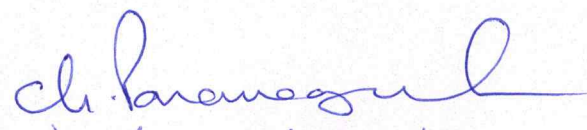
Signature of the external expert I.

  
Signature of the Head/Coordinator

CO-ORDINATOR  
Dept. of Material Science & Nanotechnology,  
YOGI VEMANA UNIVERSITY COLLEGE  
KADAPA-516 003. (A.P) INDIA

  
Registrar

REGISTRAR  
YOGI VEMANA UNIVERSITY  
KADAPA-516 005.

  
Signature of the external expert II.