

**KALIKADEVI ARTS, COMMERCE AND SCIENCE COLLEGE,  
SHIRUR (KA).**

**TQ. SHIRUR (KA), DIST. BEED.**

**PIN:413249(M.S)**



**THE ANNUAL QUALITY ASSURANCE REPORT (AQAR)  
2014-15**

**Prepared By  
INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**Submitted To  
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
BANGALORE  
2014-15**

## The Annual Quality Assurance Report (AQAR) of the IQAC

### Part – A

#### 1. Details of the Institution

1.1 Name of the Institution

Kalikadevi Arts, Commerce and Science College,

1.2 Address Line 1

Shirur (Ka),

Address Line 2

Shirur (Ka), Dist. Beed.

City/Town

Shirur (Ka),

State

Maharashtra.

Pin Code

413249.

Institution e-mail address

[kalikadevicollege@gmail.com](mailto:kalikadevicollege@gmail.com)

Contact Nos.

02444-259590

Name of the Head of the Institution:

Dr. Deshmane P.B.

Tel. No. with STD Code:

02444-259590

Mobile:

7720007940

Name of the IQAC Co-ordinator:

Dr. Gholap P. N.

Mobile:

7875416931

IQAC e-mail address:

[kalikadeviigac@gmail.com](mailto:kalikadeviigac@gmail.com)

1.3 NAAC Track ID (For ex. MHCOGN 18879)

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

EC/63/A&A/07 dated 23-03-2013

1.5 Website address:

[www.kalikadevicollege.org](http://www.kalikadevicollege.org)

Web-link of the AQAR:

[www.kalikadevicollege.org/AQAR2013.15.doc](http://www.kalikadevicollege.org/AQAR2013.15.doc)

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.65	2013	2018
2	2 <sup>nd</sup> Cycle	....	....	....	....
3	3 <sup>rd</sup> Cycle	....	....	....	....
4	4 <sup>th</sup> Cycle	....	....	....	....

1.7 Date of Establishment of IQAC: DD/MM/YYYY

12-SEPT- 2007

1.8 AQAR for the year (for example 2010-11)

2014-15

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR 2012-13 Submitted to NAAC on 14/10/2013 (DD/MM/YYYY)  
 ii. AQAR\_2013-14-Submitted to NAAC on 27/10/2014 (DD/MM/YYYY)  
 iii. AQAR \_\_\_\_\_ (DD/MM/YYYY)  
 iv. AQAR \_\_\_\_\_ (DD/MM/YYYY)

## 1.10 Institutional Status

University	State <input checked="" type="checkbox"/>	Central <input type="checkbox"/>	Deemed <input type="checkbox"/>	Private <input type="checkbox"/>
Affiliated College		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Constituent College		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Autonomous college of UGC		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Regulatory Agency approved Institution		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

(e.g. AICTE, BCI, MCI, PCI, NCI)

Type of Institution	Co-education <input checked="" type="checkbox"/>	Men <input type="checkbox"/>	Women <input type="checkbox"/>
	Urban <input type="checkbox"/>	Rural <input checked="" type="checkbox"/>	Tribal <input type="checkbox"/>
Financial Status	Grant-in-aid <input checked="" type="checkbox"/>	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
	Grant-in-aid + Self Financing <input type="checkbox"/>	Totally Self-financing <input type="checkbox"/>	

## 1.11 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>	Law <input type="checkbox"/>	PEI (Phys Edu) <input type="checkbox"/>
TEI (Edu) <input type="checkbox"/>	Engineering <input type="checkbox"/>	Health Science <input type="checkbox"/>	Management <input type="checkbox"/>	
Others (Specify)	<input type="text" value="----"/>			

1.12 Name of the Affiliating University (*for the Colleges*)

Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad-431004,  
Maharashtra.

## 1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence	--	UGC-CPE	--
DST Star Scheme	--	UGC-CE	--
UGC-Special Assistance Programme	--	DST-FIST	--
UGC-Innovative PG programmes	--	any other ( <i>Specify</i> )	--
UGC-COP Programmes	--		

## **2. IQAC Composition and Activities**

2.1 No. of Teachers	09		
2.2 No. of Administrative/Technical staff	02		
2.3 No. of students	01		
2.4 No. of Management representatives	01		
2.5 No. of Alumni	01		
2. 6 No. of any other stakeholder and Community representatives	01		
2.7 No. of Employers/ Industrialists	01		
2.8 No. of other External Experts	01		
2.9 Total No. of members	17		
2.10 No. of IQAC meetings held	03		
2.11 No. of meetings with various stakeholders:	No. 01	Faculty	01
Non-Teaching Staff Students	01	Alumni	01
		Others	---

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount


☒

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- Organized welcome ceremony for first year students and fare-well ceremony of last year students.
- IQAC is constantly evaluating the attendance of students as well as teaching learning process through feedback.
- Office & Library has been shifted to more specious & well furnished hall.
- Encourage the faculty members to pursue research in their respective field of study.
- The proposal of the IQAC was approved by the management and funds were allocated for the beatification of the campus.
- Academic audit of each faculty is conducted.
- Updated the already authorized existing licensed Copies software installed in the institution.
- Help in examination reforms and process.
- Conducted remedial coaching for slow learner students to enhance their learning ability.
- Organized exhibition all department related activities through students.
- Conducted state level debit compitation.
- NSS proposal for best unit award was submitted.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
<ul style="list-style-type: none"> <li>To begin lectures on the first working day i.e. 9th June, 2014</li> </ul>	<ul style="list-style-type: none"> <li>➤ Began lectures as per the scheduled date i.e. 9th June, 2014.</li> </ul>
<ul style="list-style-type: none"> <li>To ensure 100% utilization of lecture timings</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lectures were held as per schedule. Teachers intimated time table committee one day in advance about absence, and appropriate adjustments were made in time table to engage the vacant lectures.</li> </ul>
<ul style="list-style-type: none"> <li>IQAC has motivated the staff to present papers in National and International Conferences.</li> </ul>	<ul style="list-style-type: none"> <li>➤ 28 Faculty have presented papers and 17 no. of papers have been published in International Journals.</li> <li>➤ The faculty members have published 03 books.</li> </ul>
<ul style="list-style-type: none"> <li>IQAC has motivated the staff and students to organize National festivals and participate in Religious.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Accordingly Independence Day, Gandhi Jayanti, Save Girls, Religious etc has been a part of the academic activities of the college.</li> </ul>
<ul style="list-style-type: none"> <li>IQAC chalked out plan to Eco-friendly practices.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Green Campus.</li> <li>➤ Clean Campus.</li> </ul>
<ul style="list-style-type: none"> <li>To prepare and publish yearly academic calendar before the beginning of the academic year.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Yearly academic calendar for 2014-15 was published towards the end of the academic year 2013-14.</li> <li>➤ <i>Annexure I Academic calendar.</i></li> </ul>
<ul style="list-style-type: none"> <li>To initiate innovative teaching process.</li> </ul>	<ul style="list-style-type: none"> <li>➤ 275 students from various courses were taken for a factory visit/industrial visits/Tour for giving them practical exposure.</li> <li>➤ Visits, Dramas, Assignments, Presentations, Projects were organised.</li> <li>➤ Students of various branches were given a chance to learn essentials of Leadership, Marketing, Customer service and Entrepreneurship, Planning and Execution of strategies through Fests conducted.</li> </ul>
<ul style="list-style-type: none"> <li>To provide support to academically weak students.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Remedial Coaching for weak students, Student Mentoring, Schemes for financially backward students, Guardian Teachers for weak students and Counseling.</li> </ul>
<ul style="list-style-type: none"> <li>To plan and implement co-curricular and extracurricular</li> </ul>	<ul style="list-style-type: none"> <li>➤ Different committees were formed to implement various faculty, student and social development activities under</li> </ul>

activities.	governance Principal.
<ul style="list-style-type: none"> <li>To keep guardians updated about their wards' performance</li> </ul>	<ul style="list-style-type: none"> <li>➤ Parents Teacher meeting arranged regularly for discussing wards' progress. Follow up actions taken on the feedback from guardians.</li> <li>➤ Follow up actions taken on the feedback from guardians.</li> </ul>
<ul style="list-style-type: none"> <li>To address student grievances</li> </ul>	<ul style="list-style-type: none"> <li>➤ Grievance committee is functional and active to attend to all grievances without delay. We have a three tier system in addition to the Grievance Cell. Students can approach directly to teacher. Next stage, student can contact HOD/Coordinator. After both avenues are tried the matter can be referred to Principal or Vice Principal.</li> </ul>
<ul style="list-style-type: none"> <li>To introduce standard operating procedure for the effective functioning of the examination cell and office</li> </ul>	<ul style="list-style-type: none"> <li>➤ Tentative exam dates were incorporated in Academic Calendar announced and put up in notice board at the beginning of the semester. It was displayed on University website also Time table, seating arrangement, hall ticket issue dates, result dates, admission dates, etc., were announced 45 days before the examination.</li> <li>➤ <b>*Annexure II Exam Calendar</b></li> </ul>

*\* Attach the Academic Calendar of the year as Annexure.*

2.15 Whether the AQAR was placed in statutory body Yes

No

Management ☒ Syndicate ☒ any other body ☐

Provide the details of the action taken

➤ The management approved the plan of action and gave consent to implement them.



**Part – B****Criterion – I****1. Curricular Aspects****1.1 Details about Academic Programmes**

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	.....	.....	.....	.....
PG	.....	.....	.....	.....
UG	03	.....	.....	.....
PG Diploma	.....	.....	.....	.....
Advanced Diploma	.....	.....	.....	.....
Diploma	.....	.....	.....	.....
Certificate	.....	.....	.....	.....
Others	.....	.....	.....	.....
<b>Total</b>	03	.....	.....	.....

Interdisciplinary	.....	.....	.....	.....
Innovative	.....	.....	.....	.....

**1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options****(ii) Pattern of programmes:**

Pattern	Number of programmes
Semester	06
Trimester	.....
Annual	.....

1.3 Feedback from stakeholders\*  
(On all aspects)

Alumni ☒ Parents ☒ Employers ☒ Students ☒

Mode of feedback :

Online ☐ Manual ☒ Co-operating schools (for PEI) ☐

**\*Please provide an analysis of the feedback in the Annexure**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- Yes, syllabi of B.A., B.Com. & B.Sc. S.Y. III & IV Semester is updated by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

-----Nil-----

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**Criterion – II****2. Teaching, Learning and Evaluation**

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
31	30	.....	.....	01

2.2 No. of permanent faculty with Ph.D.

11

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
31	09	....	....	....	....	00	02	31	11

2.4 No. of Guest and Visiting faculty and Temporary faculty

.....

.....

05

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	04	35	13
Presented papers	04	32	10
Resource Persons	.....	.....	.....

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Group Discussion.
- Class Seminars.
- Power Point Presentation.
- Demonstration & Practical.
- Guest Lecture.
- Industrial Visit.
- Study Tour.
- Debate Competition.

2.7 Total No. of actual teaching days

188

during this academic year

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Examination conducted by as per University rule.

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development

.....

.....

02

as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

87 %

2.11 Course/Programme wise -

distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.A. F.Y.	241	.....	28.80	26.97	54.00	77.17
B.A. S.Y.	170	.....	1.76	52.35	90.30	90.00
B.A. T.Y.	131	.....	67.93	5.34	....	65.64
B.Sc. F.Y.	168	5.97	67.39	23.18	19.64	98.80
B. Sc. S.Y.	131	0.76	30.53	26.71	50.38	83.20
B. Sc. T.Y.	99	.....	40.40	12.12	6.60	58.58
B.Com. F.Y.	84	.....	20.23	40.47	36.90	97.61
B. Com. S.Y.	65	.....	23.07	26.15	40	89.23
B. Com. T.Y.	46	.....	82.60	4.34	....	86.95

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

IQAC contribution to improve teaching –learning process mainly concerns.

- Under guidance of IQAC Academic calendar and teaching diary is prepaid uniformity in teaching learning and evaluation process.
- To evaluate learning outcomes of student class, seminars, group discussion and class test are conducted through IQAC.
- Curricular and extracurricular activities for student are planed though IQAC.

## 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	13
UGC – Faculty Improvement Programme	....
HRD programmes	....
Orientation programmes	04
Faculty exchange programme	....
Staff training conducted by the university	04
Staff training conducted by other institutions	....
Summer / Winter schools, Workshops, etc.	02
Others	.....

## 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	05	.....	.....	.....
Technical Staff	10	05	.....	.....

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**Criterion – III****3. Research, Consultancy and Extension****3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution**

- IQAC encourage the teacher to present papers in International, National and state seminars, conference.
- IQAC also stimulate the teachers for paper publication and book writing.
- IQAC promotes faculty members to register for Ph.D. and M.Phil. Degrees,
- IQAC sanction Special leaves for Orientation & Refresher Course.

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

**3.4 Details on research publications**

	International	National	Others
Peer Review Journals	17	04	.....
Non-Peer Review Journals	.....	.....	.....
e-Journals	.....	.....	.....
Conference proceedings	.....	01	.....

**3.5 Details on Impact factor of publications:**

Range  Average  h-index  Nos. in SCOPUS

## 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	.....	.....	.....	.....
Minor Projects	.....	.....	.....	.....
Interdisciplinary Projects	.....	.....	.....	.....
Industry sponsored	.....	.....	.....	.....
Projects sponsored by the University/ College	.....	.....	.....	.....
Students research projects (other than compulsory by the University)	.....	.....	.....	.....
Any other(Specify)	.....	.....	.....	.....
Total	.....	.....	.....	.....

3.7 No. of books published: i) With ISBN No.

03

Chapters in Edited Books

.....

ii) Without ISBN No.

.....

3.8 No. of University Departments receiving funds from

UGC-SAP

--

CAS

--

DST-FIST

--

DPE

--

DBT Scheme/funds

--

3.9 For colleges

Autonomy

--

CPE

--

DBT Star Scheme

--

INSPIRE

--

CE

--

Any Other (specify)

--

3.10 Revenue generated through consultancy

.....

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	.....	.....	.....	.....	.....
Sponsoring agencies	.....	.....	.....	.....	.....

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency  From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	.....
	Granted	.....
International	Applied	.....
	Granted	.....
Commercialised	Applied	.....
	Granted	.....

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year.

Total	International	National	State	University	Dist	College
.....	.....	.....	.....	.....	.....	.....

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF  SRF  Project Fellows  Any other



3.21 No. of students Participated in NSS events:

University level	<input type="text" value="10"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.22 No. Of students participated in NCC events:

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="01"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="--"/>	State level	<input type="text" value="--"/>
National level	<input type="text" value="--"/>	International level	<input type="text" value="--"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="--"/>	College forum	<input type="text" value="--"/>
NCC	<input type="text" value="--"/>	NSS	<input type="text" value="--"/>
		Any other	<input type="text" value="--"/>

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility.

- Conducted women empowerment programs.
- Pre-recruitment training was given to candidates from local community for police and other services.
- Encourage the students to engage in community services.
- NSS winter camp.
- Women health and legal social awareness program.

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**Criterion – IV****4. Infrastructure and Learning Resources**

## 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	3338.59 Sq.m.	.....	.....	3338.59 Sq.m.
Class rooms	13	.....	.....	13
Laboratories	06	.....	.....	06
Seminar Halls	01	.....	.....	01
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	.....	.....	.....	.....
Value of the equipment purchased during the year (Rs. in Lakhs)	.....	.....	.....	.....
Others	.....	.....	.....	.....

## 4.2 Computerization of administration and library

➤ Office administration is fully computerised and library partly.

## 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	3723	.....	.....	.....	3723	730719
Reference Books	190	.....	.....	.....	190	147726
e-Books	.....	.....	.....	.....	.....	.....
Journals	04	.....	.....	.....	04	
e-Journals	.....	.....	.....	.....	.....	.....
Digital Database	.....	.....	.....	.....	.....	.....
CD & Video	14	.....	.....	.....	14	700
Others (specify)	86	.....	.....	.....	86	.....

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	33	10	....	.....	....	06	15	02
Added	....	....	....	....	....	....	....	....
Total	33	10	....	.....	....	06	15	02

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

- Computer facility is available in all the departments, library and administrative staff.
- All administrative staff members are up graded of computer and internet.

#### 4.6 Amount spent on maintenance in lakhs:

i) ICT	109912
ii) Campus Infrastructure and facilities	96065
iii) Equipments	35800
iv) Others	67942
<b>Total:</b>	<b>309719</b>

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## **Criterion – V**

### **5. Student Support and Progression**

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Information on Student Support Services is given through the following modes:
  - Prospectus,
  - Website,
  - Announcements in class,
  - Notices put up in notice boards,
  - Student's Council,
  - Class Coordinator,
  - Student Members in important committees,
  - Separate notice board for each stream,

#### 5.2 Efforts made by the institution for tracking the progression

- Student feedback from for teacher evaluation.
  - Self appraisal report,
  - Student counselling,
  - Suggestion box,
  - Alumni meeting
  - Class wise test paper,
  - Group discussion,

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1215	....	....	....

(b) No. of students outside the state

(c) No. of international students

No	%
668	56

Men

Women :

No	%
547	46

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
376	76	03	568	....	1023	484	80	03	648	....	1215

Demand ratio - As per University guidelines

Dropout %

10 %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- The college also gives coaching to the student for MPSC, IBPS, STI and other competitive examinations by making use of experienced and expert resource person.
- Library has a separate section of books meant for preparation of competitive examination.
- Library disseminates information through notice board display and emails via Google groups about important announcement regarding various competitive exams.
- Requisition forms are also available for students.

No. of students beneficiaries

120

5.5 No. of students qualified in these examinations

NET	<input type="text" value="--"/>	SET/SLET	<input type="text" value="--"/>	GATE	<input type="text" value="--"/>	CAT	<input type="text" value="--"/>
IAS/IPS etc	<input type="text" value="---"/>	State PSC	<input type="text" value="--"/>	UPSC	<input type="text" value="--"/>	Others	<input type="text" value="--"/>

## 5.6 Details of student counselling and career guidance

- 70 Student were enrolled to CGCC.
- Regular counselling centre is working for student counselling and career guidance.
- The cell also provides books and periodicals of various course job opportunities by displaying in college library and putting on the notice board.

No. of students benefitted

65

## 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
01	242	28	35

## 5.8 Details of gender sensitization programmes

- Conducted a medical camp for ruler women by Dr. Susma Sanap, Dr. Archana Deshpande Dr. Priti Bade Medical for general diseases
- Adv. Manjusha Darade delivered a lecture on “Indian laws related to woman”.
- Social activist Manisha Tokale gave information of Human rights of woman and decriminalisation against females in family and society.
- Arrange Awareness campus for the female student on “Health and hygiene”.
- Amass rally was conducted on Beti Bachave & Beti Padhav (Save and Educate Girls)

## 5.9 Students Activities

## 5.9.1 No. of students participated in Sports, Games and other events

State/ University level

02

National level

....

International level

....

No. of students participated in cultural events

State/ University level

22

National level

....

International level

....

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level  .... National level  .... International level  ....

Cultural: State/ University level  .... National level  .... International level  ....

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	.....	.....
Financial support from government	.....	.....
Financial support from other sources	.....	.....
Number of students who received International/ National recognitions	.....	.....

5.11 Student organised / initiatives

Fairs: State/ University level  .... National level  .... International level  ....

Exhibition: State/ University level  .... National level  .... International level  ....

5.12 No. of social initiatives undertaken by the students  05

5.13 Major grievances of students (if any) redressed:

- To change Office in proper place with well design.
- To shift library at convenient place.
- Men toilet facility refurbished.
- To maintenance of laboratories safety.

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**Criterion – VI****6. Governance, Leadership and Management****6.1 State the Vision and Mission of the institution**

- To mentor and inculcate social and moral values in student and empower them towards nation building activity.
- To cultivate feeling of social bonding and development among student, through different intervention and entrepreneurship programmed by the college.
- To promote an environment of academic excellence through development of human potentials.
- To inspire and ignite young minds to inculcate a creative thinking and innovative ideas so and to train them to earn their livelihood by honest that would help them to succeed in their future career.
- To create the platform where students feel to point out their problems, general drawbacks and limitations.

**6.2 Does the Institution has a management Information System**

Yes,

The college has a full fledged management information system for the academic administrative functioning of the college. The administrative system in the college is fully automated with appropriate software and all information of student admission, marks, fee payments etc. which is available for timely decision making and action.

The college library is also automated and information regarding availability of books issue details etc.

The salary payment system of the staff is governed by government of Nagpur software.

All relevant information about the college is published on the college website for reference.



### 6.3 Quality improvement strategies adopted by the institution for each of the following:

#### 6.3.1 Curriculum Development

- We follow the Syllabus designed by the Board of Studies of Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Maharashtra.
- Teachers participated in revised curriculum discussion workshops to obtain information and understand the changes.
- Teachers are in constant touch with the Board of Studies members and suggest topics or ideas for changes in the curriculum.
- They also suggest to add recent information about topics in syllabus.

#### 6.3.2 Teaching and Learning

- Teachers are encouraged to supplement regular chalk/board lectures with presentations, case studies, discussions, debates etc.
- Industrial visits and visits to Production Company etc., industries are often carried out to give students knowledge of how their subjects are applied in such settings. These also give students a preview of the type of employments they may receive after their studies.
- The college has a robust attendance follow up system, which has ensured less number of students missing lectures.
- We conduct regular class test for all classes. This has helped us to instill a habit of regular learning among the students.
- Through teaching plan and regular monitoring by H.O.D.s we ensure covering of topics as per syllabus well in advance of the examinations.
- Quality of teaching is overviewed by H.O.D.s/ coordinators/ Vice Principal/ Principal at regular intervals through formal and informal interactions.

### 6.3.3 Examination and Evaluation

- University examinations are conducted as per the norms and regulations of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- We follow a standardized and systematic Examination and Evaluation system.
- Examination schedule for the entire term is prepared in the beginning of each term. Teachers and students are informed about the exams at least a 45 days before the exams begin. [**Refer Annexure II**].
- Assessment is done based on the synoptic answers through Centralized Assessment Programme (CAP) to ensure timely correction.
- Wherever possible, moderation is carried out by teachers from other colleges.
- Transparency in examinations was maintained through Re-verifications of papers and by allowing students to see their answer papers.

### 6.3.4 Research and Development

- Published a compilation of research articles and conference proceedings of the teacher belonging to various disciplines.
- Teachers are encouraged to write in national and international journals and books.
- Teachers are encouraged to pursue research degrees.
- Teachers are motivated to submit minor and major research proposal.
- Teachers are supported for attending research seminars, conferences and workshop.
- Teachers are encouraged to publish research related papers in reputed journals.
- Teachers are encouraged to get into collaborations with institute or person of repute in their area of research.
- Teachers completing their Ph.D. while in service are felicitated by the management.

## 6.3.5 Library, ICT and physical infrastructure / instrumentation

**Library:**

- Library is well equipped and fully computerized. Having independent person. Student reading room.
- Library facilities are augmented by procuring new titles and copies of existing books.

**ICT:**

- Audio visual room is available in college.
- ICT enabled teaching.
- Teachers are encouraged to supplement chalk board lectures with presentations.

## 6.3.6 Human Resource Management

- Standardized procedure as under:
  - All faculty members and non teaching staff are involved in college development activities.
  - Our H.R. policy is teacher/staff oriented.
  - Female staff member were supported by providing maternity leave and by adjusting lecture timing.
  - Female staff members who have breast feeding babies were allowed to go in between the lecture.
  - Each staff was granted casual leave and medical and duty leave whenever is needed.

## 6.3.7 Faculty and Staff recruitment

- Faculty and staff recruitment is done according to the rules and regulations of government of Maharashtra and norms of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- Teachers are appointed by merit given by the selection committee.

## 6.3.8 Industry Interaction / Collaboration

- To improve the employability of students and to expose the students to actual industrial atmosphere linkages are being worked out with industries.
- Department of Zoology had collaborated with P.L. Nike research centre Orissa.
  - Department of commerce have established a reasonable good linkage with neighbouring industries for industrial visit for student.

## 6.3.9 Admission of Students

- Admission conducted as per university norms and government orders.
- Admission for undergraduates (UG) is done by College (Online registration).
  - Strict transparency and admission rules are adhered by the college.
  - We follow all the reservation policies outlined by the Government of Maharashtra.

## 6.4 Welfare schemes

Teaching	Adarsh Co-operative Society.
Non teaching	Adarsh Co-operative Society.
Students	.....

## 6.5 Total corpus fund generated

## 6.6 Whether annual financial audit has been done

Yes

☒

No

☐

## 6.7 Whether Academic and Administrative Audit (AAA) have been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	.....	.....	Yes	IQAC
Administrative	Yes	Joint Director	.....	.....

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes

Yes

☐

No

☒

For PG Programmes

Yes

☐

No

☐

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

➤ Examination are Conducted as per the University norms and regulations.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

NA

6.11 Activities and support from the Alumni Association.

➤ Suggestions were received from the Alumni during the Alumni meet.

☐ Alumni suggested placement opportunities for our current students through informal interaction with our teachers.

☐ Alumni volunteered to take Guidance Session for our current students.

☐ Alumni students were called as resource persons and were asked to share their experiences with students and provide suitable guidance to them.

6.12 Activities and support from the Parent – Teacher Association.

➤ Suggestions for development of Institute.

☐ Through regular parent- teacher meeting, Parent Teacher Association was active.

☐ Parents were called by the PTA for informing them about the functioning and activities of the said association.

#### 6.13 Development programmes for support staff

- Participation in various training programs which were conducted by University.
- ☐ Involment in various faculty development programs.
- ☐ Office staff is given leave for attending courses which they are interested in.

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

- Various awareness programs relating environmental protection has been conducted.
- Daily cleaning of the campus.
- Minimum use of papers and reuse of wasted files.
- Shelters for birds were provided.
- Tree Plantation.
- Waste paper basket located in each floor of the campus.

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**Criterion – VII****7. Innovations and Best Practices**

7.1 Innovations introduced during this academic year which have created a positive impact on the

Functioning of the institution. Give details.

- Special issue of Annual College Magazine 'Adarsh' on environment awareness was published.
- Green campus.
- Re-designed web site.
- Awareness of iron folic acid camp.
- Awareness of Social activities.
- Department of career guidance and counselling creating awareness regarding competitive examinations.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- All activities were conducted as per academic calendar. Beyond these pre-plan activities the department association, committees and cells were organised various gender sensitisation programs, awareness programs and extension activities during 2014-15.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- Organised study tour.
- Guest lecturers for awareness of natural resources particularly wind and solar energy.
- Organised Placement camp 28 students recruited.

***\*Provide the details in annexure (annexure need to be numbered as i, ii, iii)***

7.4 Contribution to environmental awareness / protection

- Awareness program are organised among students for environment conservation.
- Poster presentation on environment awareness.
- Exhibition was conducted for environment awareness by Geography and Science Faculty.

7.5 Whether environmental audit was conducted?

Yes

☐

No

☒

## 7.6 Any other relevant information the institution wishes to add. (For example SWOC Analysis)

**Strength:**

- Well qualified staff, good result tradition.
- Parent teacher association.
- Provides higher education to student from a ruler and marginalized sections of the society.
- The teacher and student relationship enabling the teacher to act as a mentor and guide solving the academic and personal problems of students.
- Women's eco-friendly campus.
- Faculty involved in paper publication in national and international conference.
- Up dated office software.

**Weakness:**

- Lack of E-books and E- Journals.
- Drop-out rate of female student owing marital reasons.
- Lack of interest on higher education.
- Shortage of reference books in college library.

**Opportunity:**

- To create efficient administrators politicians powerful youth and strong Indians for health, wealth and characters of the nation.
- To create awareness in higher education of students.
- Development of overall personality of the student to prepare them against new challenges.

**Challenges:**

- Emerging professional course reducing the flow of student to traditional courses.
- Under taking more research projects.
- Establishing linkages and collaborations with reputed institutions.
- To minimise women's drop-out rate.



THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2014-15

7.7. Plans of institution for next year

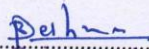
- ICT support IQAC office.
- Motivate the teachers to submit minor /major research Project proposal.
- Try to decrease female drop-out rate.
- To improve physical facility of college.
- To request the management to appoint permanent faculty for vacant post.
- Emerging professional course reducing the flow of student to traditional courses.

Name: Dr. Gholap P. N.



Signature of the Coordinator, IQAC

Name: Dr. Deshmane P. B.

  
Principal

Kalikadevi Arts Comm. & Sci. College,  
Shirur (Ka), Dist. Beed.

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**Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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**ADARSH SHIKSHAN SANSTHA'S,  
KALIKADEVI ART'S, COMMERCE & SCIENCE COLLEGE,  
TQ – SHIRUR (KA) DIST - BEED  
ACADEMIC CALENDER 2014-2015**

Sr.No	Annual Planning	Date
1	Opening / Staff Meeting	09/06/2014
2	Result Analysis	10/06/2014 to 14/06/2014
3	Admission	10/06/2014
4	Time Table Framing	14/06/2014
5	Teaching Start	19/06/2014
6	Ramjan Id	29/07/2014
7	Independence Day	15/08/2014
8	Parsi New Year	18/08/2014
9	University Foundation Day	23/08/2014
10	Ganesh Chaturthi	29/08/2014
11	Marathwada Mukti Sangram Din	17/09/2014
12	Gandhi Jayanti	02/10/2014
13	Dasara(Vijaya Dashami)	03/10/2014
14	Bakari Id	06/10/2014
15	Tentatively Exam Start	08/10/2014
16	Closing Day I Term	18/10/2014
17	Winter Vacation	19/10/2014 to 09/11/2014
18	Deewali	23/10/2014
19	Bali Pratipada	24/10/2014
20	Moharam	04/11/2014

<b>21</b>	Guru Nanak Jayanti	06/11/2014
<b>22</b>	<b>Opening II Term</b>	<b>10/11/2014</b>
<b>23</b>	Teaching Start	17/11/2014
<b>24</b>	Christmas	25/12/2014
<b>25</b>	University Rename Day	14/01/2015
<b>26</b>	Republic Day	26/01/2015
<b>27</b>	Mahashivratri	17/02/2015
<b>28</b>	Dhulivandan	06/03/2015
<b>29</b>	Gudhi Padva	21/03/2015
<b>30</b>	Dr. Ambedkar Jayanti	14/04/2015
<b>31</b>	Closing II Term	18/04/2015
<b>32</b>	<b>Summer Vacation</b>	<b>19/04/2015 to 07/06/2015</b>
<b>33</b>	<b>Opening day of 2015-16 Academic Year</b>	<b>08/06/2015</b>

**Note :-** All National days, Festivals Birth & Death Anniversary of National leaders should be arranged and celebrated as per Govt. G.R. Circular and University Circulars without disturbing Teaching programme College may arrange Cultural Programmes, Sports and NSS activities and important functions and special days in the colleges.

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Final Academic Calendar-2014-15 with Chairman sign

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Appendix – "A"**Dr. Babasaheb Ambedkar Marathwada University**  
**For Affiliated Colleges and Recognized Institutions****(A) First Term 09-06-2014 To 18-10-2014 (Both days inclusive)**

Opening Day (First Term)	09 June 2014
Last working day of First Term	18 Oct 2014
Period of Winter Vacation	19 Oct 2014 To 09/11/2014

**(B) Second Term :- 10-11-2014 To 18-04-2015 (Both days inclusive)**

Opening Day (Second Term)	10 /11/ 2014
Last working day of Second Term	18 /04/ 2015
Period of Summer Vacation	19 /04/ 2015 To 07/06/2015

\* **Last date of submission of Eligibility :- 31<sup>st</sup> July, 2014,**  
**Form by the Students to the**  
**concerned College.**

\* **Last date of submission of Eligibility :- 16<sup>th</sup> August, 2014,**  
**Form by College to University.**

**For Department of University Campus & Sub-Campus, Osmanabad****\* First Term 16-06-2014 To 15-11-2014 (Both days inclusive)**

Sr. No.	Event	Date
1	Notification for Entrance Test for admission to P.G. Courses at the University Campus & Sub-Campus Osmanabad	02-06-2014
2	Entrance Test	16 <sup>th</sup> to 20 <sup>th</sup> June 2014
3	Declaration of results of Entrance Tests	16 <sup>th</sup> to 20 <sup>th</sup> June 2014
4	Notification for Registration for Admission to P.G.	16 <sup>th</sup> June 2014
5	Admission to be given to P.G. Courses I & II Sem. M.Phil. Courses	Up-to 14 <sup>th</sup> July 2014
6	Commencement of teaching of Semester I, III & M.Phil Courses.	14 July 2014
7	Submission of Eligibility Forms	Up to 31 <sup>st</sup> July 2014
8	University Open Day	22 <sup>nd</sup> & 23 <sup>rd</sup> August 2014
9	First Internal Test	15 September, 2014
10	Second Internal Test	27 October, 2014
11	Term End Examinations	[a] All Service Courses 1 <sup>st</sup> Nov., 2014. [b] Departmental Courses [Theory & Practical] From 2 <sup>nd</sup> Nov., 2014.
12	Declaration of Results	20 <sup>th</sup> Nov., 2014.
13	Winter Vacation	16-11-2014 to 30-11-2014 (Both days inclusive)



**Final Academic Calendar-2014-15 with Chairman sign**

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S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards

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**\* Second Term 01 December, 2014 to 2<sup>nd</sup> May 2015**

Sr.No.	Event		Date
1	Opening Second Term		1 <sup>st</sup> December, 2014
2	Commencement of Teaching II & IV Sem. & M.Phil. Courses		2 <sup>nd</sup> December, 2014
3	First Internal Test		10 <sup>th</sup> February, 2015
4	Second Internal Test		23 <sup>rd</sup> March, 2015
5	Term End Examinations	[a]	All Service Courses 13 <sup>th</sup> April, 2015.
		[b]	Departmental Courses [Theory & Practical] From 15 <sup>th</sup> April, 2015.
6	Declaration of Results		2 <sup>nd</sup> May, 2015
7	Summer Vacation		3 <sup>rd</sup> May, 2015 to 15 <sup>th</sup> June 2015, (Both days inclusive)

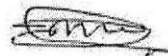
**For Engineering & Technology Colleges**

**SEMESTER-I :-**

- [1] Term start [For S.E., T.E. & B.E.] :- 15-07-2014
- [2] Term start [For F.E. & M.E.] :- As per Govt.  
[D.T.E.] Date
- [3] Term End [For S.E., T.E. & B.E.] :- 30-10-2014
- [4] Term End [For F.E. & M.E.] :- 29-11-2014
- [5] Exam Starts [For S.E., T.E. & B.E.] :- 18-11-2014
- [6] Exam Starts [For F.E. & M.E.] :- 05-12-2014.  
[Regular].

**SEMESTER-II :-**

- [1] Term start [For All] :- 07-01-2015
- [2] Term End [For All] :- 25-04-2015
- [3] Exam Starts [For All] :- 07-05-2015



## ANNEXURE III

**STUDENT FEEDBACK FORM ANALYSIS 2014-2015.**

<b>SR. N O</b>	<b>Question</b>	<b>A Strongly Agree</b>	<b>B Agree</b>	<b>C Disagree</b>	<b>D don't know</b>
1	Present the material clearly	90.00%	7.50%	2.50%	00%
2	Facilitates my understanding of the material	80.50%	10.50%	9.00%	00%
3	Is approachable outside of class	70.00%	15.00%	11.50%	3.50%
4	Is fair teacher	65.00%	20.00%	15.00%	00%
5	Cares about the students and their concerns	50.50%	40.00%	9.50%	00%
6	Is aware of the students level of understanding	58.50%	38.50%	3.00%	00%
7	Welcome and encourage student contribution and interpretation	66.00%	25.00%	7.00%	2.00%
8	Is knowledgeable	73.00%	21.00%	6.00%	00%
9	The teacher's style is effective	50.00%	41.00%	5.00%	4.00%
10	This class is interesting	60.00%	28.00%	8.00%	4.00%
11	This class is challenging	50.00%	39.50%	5.50%	5.00%
12	The work-load is fair	51.00%	36.00%	8.50%	4.50%
13	The assignments are clear	43.00%	51.00%	5.00%	1.00%
14	The tests are relevant to the topic covered	48.00%	49.00%	3.00%	00%

\*\*\*\*\*

## 1. BEST PRACTICES

### Study Tour

**Goal:**

The primary goal and intent of our college is to awaken intelligence in the educator and the student. This has to be kept in the forefront of all activities in the college- academic or otherwise both while designing and implementing them.

The purpose of a tour is to generate an exchange of experience and good practice between the local you visit and the local college belongs to. "Field trips are a great way to bring excitement and adventure to learning." To develop skills in students to undertake research through project studies and expose them to the urbanization of rural and urban India through the prism of developing cities and industrial centres across the cities of Aurangabad, Paithan and Beed. The students were also confronted with various aspects of governance related to the development and growth of these cities and the dynamics of managing population centres to include migratory labour and their problems.

**The Context:**

Higher education is viewed as a source of great potential for the socio-economic and cultural development of the country. Higher education is rapidly changing our world and changes the things in new form. Our need of change in this level not only in academic side but student life also. As the students being the main clients of higher education. They are central part of learning process. Therefore, they not only required quality education but also effective and latest means of learning to have a better knowledge and have a command on what they are studying presently so they will able to apply that knowledge in their future life also. For this purpose, different sort of activities like seminars, discussions, presentations, workshops, local conferences, lectures and educational field trips are essentials to conduct at this level. Especially the activity of educational field trips which are commonly conducted for the students. at higher level are one of the major source of providing knowledge to the students by giving opportunity for self-experiences and observations and self long-lasting learning.

**The Practice:**

Some teachers and students may question why field trips are needed anymore. Field trips can be troublesome and difficult to organize and supervise. But they do provide learning opportunities that cannot be experienced in the classroom. They are a great way to



communicate difficult information. Through educational field trips most of the concepts and phenomena may be easily clarified understood and assimilated and with the help of this, good deal of energy and time of both the teachers and students can be saved. Arrangement of going on a study tour is a wonderful way to extend a learning experience in such a way that the students not only understand the concept, but also understand how it connects to their world. Describes that field trips are vital for students to have a chance to view and explore historical places and different social institutions. They provide an opportunity for the students to visiting a new place, meeting new people and seeing and understanding the things. Educational field trips are very important because they are a way to bring the students closer together, they are very helpful for physical fitness of students, and they are also a source of entertainment. Educational field trips are very helpful to provide a future professional and vocational direction. They open the eyes of students, not only with information but with ideas also.

**Evidence of Success:**

The positive benefits derive from field trips are hands-on, real-world experiences, quality of education, positive attitudes to science and motivation towards the subjects, improvement of the socialization between students, which would impinge on the classroom, and development of rapport between teachers and students, enabling teachers to utilize other learning strategies such as cooperative learning. A history of field trips, if we consider the long term, we will realize that children have learned by being with their parents or placed in apprentice situations with employers for most of human history. In a sense, field trips were the norms, until the invention of formal education. In the ancient time before Christ, the Greeks take their children to the different places where children participated in different activities to develop their physical fitness.

**Problems Encountered and Resources Required:**

Due to the need of educational field trips, it is necessary that the field trips should be arranged in every department at higher level.

Every student have some specific qualities, so with the help of field trips we can promote leadership, socialization, unity, self-confidence, discipline and organizing qualities among students.

The students should be restricted by their concerned teachers, after each field trip to write a proper report about the whole trip. So that their writing skill will be enhancing as well as increase their intellectual abilities also.

\*\*\*\*\*

## **2. BEST PRACTICES**

### **Guest lecture for awareness of natural resources particularly wind and solar energy:**

#### **Goal:**

The use of many conventional energy sources, such as fossil fuels, rapidly depletes natural resources, damages the environment, and threatens public health. These energy sources are not sustainable. A common definition of sustainability is “development that meets the needs of the present without compromising the ability of future generations to meet their own needs”. Sustainable energy sources, such as wind and solar energy, do not pollute and will not become depleted. Therefore they can meet the needs of the present without compromising the future.

However, as it stands, sustainable energy accounts for less than one percent of global power production for a variety of reasons. Some reasons for not adopting sustainable energy include implementation cost and installation space (finding a large enough area for a high output wind or solar farm). At the same time there is a lack of fundamental education regarding sustainable energy at the K-12 and post secondary levels in this country and elsewhere. Therefore, while many people may be familiar with the idea of sustainable energy, young people are not necessarily fully educated about the issue. Furthermore, there is a general lack of awareness of sustainable energy in society.

#### **3. The Context:**

The Energy and natural resource (ENR) sector plays an important role in driving the economic growth of a country. Access to quality and affordable power to each household, proper and efficient utilization of natural resources are few objectives that policy makers and governments have repeatedly outlined, but have failed in implementing. The sector has been facing enormous challenges over the last few years. The lack of an integrated energy policy, non-availability of fuel such as coal and natural gas, delays in clearances and approvals, environmental issues, high interest rates, lack of investments in exploration are certain issues that have led to the declining interest of investors in this sector. Several power projects over 50 GW have been stalled due to fuel shortages, delays in environment approvals, lack of access to long-term capital, thereby as a resulting in decreased investments.

Presented below are the key points we wished to convey in our educational program and the order in which they are presented. This was arrived at bearing in mind all the above points and to convey the information we felt was important.

Energy as a whole – What is it? Where does it come from?

Renewable/Non Renewable energy and the difference, why renewable is smarter Pollution, Renewable Energy Benefits, social implications of energy choices Sources of Energy – diff types of renewable energy Generation of electricity from these sources Focus on generation of electricity from Solar Energy - Photovoltaic's As the result of participating in this activity that combines various teaching methods – lecture, discussion, simulation and a worksheet - students gain a broad introduction to renewable energy and its context.

Students are first taught about the different sources of renewable energy and are told that the focus will be on solar energy. They learn about generation of electricity from these resources since electricity is the most common form of energy consumption in our society. They are then led to examine the generation of electricity from solar energy (photovoltaics) in particular. They are led in a discussion of the benefits and limitations of photovoltaic systems and are presented some examples of their application.

#### **4. The Practice**

Currently, due to low coal prices, other fuels such as gas and renewable sources are not being utilized efficiently. However, there is a high possibility of meeting short-to-medium-term deficits by extensively harnessing small hydro, wind and solar energy sources. An integrated energy policy that covers resource availability, requirements, pricing and prioritisation is expected to help identify an optimal 'fuel basket'. Therefore college organized guest lectures for awareness of natural resources particularly wind and solar energy.

#### **Evidence of Success**

The students will use an indirect measurement method to measure the length of a wind turbine blade. The students will calculate the angular speed and the linear speed of a wind turbine. The students will work in teams of two or three and compare their answers with two other groups. Students must be able to analyze energy sources in the context of their home and community and assess the likely costs and benefits of using different energy sources. Students will gain an understanding of, how using bio-fuels are more sustainable than fossil fuels. Students should also gain an understanding that cellulosic bio-fuels are more sustainable because they are not made from products like corn and sugar cane that could otherwise have been used for food. Analyze energy resources and develop usage plans that are reasonable, effective, and appropriate.

#### **Problems Encountered and Resources Required**

For an additional classroom activity adaptable to varying classes of students.

\*\*\*\*\*