

**Shri Radhakisan Laxminarayan Toshniwal College of  
Science, Akola**



**The Annual Quality Assurance Report (AQAR)  
Of the IQAC  
2016-17**

**Submitted to**

**NAAC Office**

**National Assessment and Accreditation Council, P. O. Box No.  
1075, Nagarbhavi,  
Bangalore -560072,**

**By**

**The Principal**

**Shri R.L.T. College of Science, Civil lines, Akola-444 001, Maharashtra.**

## AQAR 2016- 2017

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

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2016 to June 30, 2017)

### Part – A

#### 1. Details of the Institution

1.1 Name of the Institution

Shri Radhakisan Laxminarayan Toshniwal  
College of Science (Shri R.L.T. College of  
Science), Akola

1.2 Address Line 1

Civil lines, Akola

Address Line 2

City/Town

Akola

State

Maharashtra

Pin Code

444001

Institution e-mail address

[principal@rtlsc.org](mailto:principal@rtlsc.org)  
[info@rtlsc.org](mailto:info@rtlsc.org)

Contact Nos.

Off: (0724) 2415480, 2415650  
Resi: (0724) 2410476,  
Cell : 9822724504

Name of the Head of the Institution:

Dr.Vijay Digambar Nanoty

Tel. No. with STD Code:

Off: (0724) 2415480, 2415650

Mobile:

9822724504

Name of the IQAC Co-ordinator:

Dr. Ponam T. Agrawal

Mobile:

7588793195

IQAC e-mail address:

Poonamagrawal2575@rediffmail.com

**1.3 NAAC Track ID** (*For ex. MHCOGN 18879*)

MHCOGN10613

**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(SC)/13A&A/6.3 dated 17/03/2016

**1.5 Website address:**

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

Web - link of the AQAR:

<http://rltsc.org/AQAR>

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	-	2004	8 <sup>th</sup> Jan 2004 to 7 <sup>th</sup> Jan 2009
2	2 <sup>nd</sup> Cycle	B	2.59	2010	28 <sup>th</sup> March 2010 to 27 <sup>th</sup> March 2015
3	3 <sup>rd</sup> Cycle	A	3.12	2017	22 <sup>th</sup> March 2017 to 21 <sup>th</sup> March 2022
4	4 <sup>th</sup> Cycle				

**1.7** Date of Establishment of IQAC : (DD/MM/YYYY)

26/08/2011

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

2016- 2017

**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*)

Sr. No.	Report	Year of AQAR	Date of Submission
1	AQAR	2015-2016	13/09/2016

### 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 (eg. AICTE, BCI, MCI, PCI, NCI)	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Type of Institution	Co-education	<input checked="" type="checkbox"/>	Men	<input type="checkbox"/>	Women	<input type="checkbox"/>		
	Urban	<input checked="" type="checkbox"/>	Rural	<input type="checkbox"/>	Tribal	<input type="checkbox"/>		
Financial Status	Grant-in-aid	<input type="checkbox"/>	UGC 2(f)	<input checked="" type="checkbox"/>	UGC 12B	<input checked="" type="checkbox"/>		
	Grant-in-aid + Self Financing	<input checked="" type="checkbox"/>	Totally Self-financing	<input type="checkbox"/>				

### 1.11 Type of Faculty/Programme

Arts	<input type="checkbox"/>	Science	<input checked="" type="checkbox"/>	Commerce	<input 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"/>								

### 1.12 Name of the Affiliating University (for the Colleges):-

Sant Gadge Baba Amravati  
University, Amravati

**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 (*Specify*)

UGC-COP Programmes

**2. IQAC Composition and Activities**

**2.1 No. of Teachers**

**2.2 No. of Administrative/Technical staff**

**2.3 No. of students**

**2.4 No. of Management representatives**

2.5 No. of Alumni

1

2.6 No. of any other stakeholder and  
Community representatives

1

2.7 No. of Employers/ Industrialists

1

2.8 No. of other External Experts

—

2.9 Total No. of members

16

2.10 No. of IQAC meetings held

04

2.11 No. of meetings with various stakeholders: 4 No. 2 Faculty

Non-Teaching Staff /Students

1

Alumni

1

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

1. Annual Meet of AUCTA

### 2.14. Significant Activities and contributions made by IQAC:

1. IQAC of the college actively faced the NAAC PEER Team visit and achieved A grade with CGPA 3.12.
2. Applied for the new academic courses namely M.Sc. Zoology, M.Sc. Physics and M.Sc. Computer Science.
3. IQAC of the college organizes various value based workshops and seminars for the Students and faculty members.
  4. Disaster Management club is working actively so as to make awareness among the students.
  5. Encourages the faculties to apply for minor and major research projects, as a result one Minor research project have been sanctioned.
6. IQAC of the college motivates the student for the research activity through participation in various academic and research activities.
7. Many MOUs were made with different institutional and research bodies for up gradation Of research.
8. Increase in infrastructural facility in college campus.



### 2.15 Plan of Action by IQAC/Outcome:-

The Internal Quality Assurance Cell of the college has decided to implement following plan for the year 2016-17. The plan of action for the year 2016-17 towards quality enhancement is as under: To frame an administrative and academic calendar.

1. To frame an administrative and academic calendar:
2. To motivate the students for research activity by encouraging them to participate in seminar competition, conferences and in Avishkar activity.
3. Renovation of old Library.
4. Shifting of Admission / Exam Committee from the office to the old Library building.
5. To bring awareness among the society about the Disaster Management through Disaster Management Club.

The plan of action, as above, was chalked out meticulously during the session 2015-16 and the result is as under –

#### 1. To frame an administrative and academic calendar:

Administrative and academic programmes were taken in accordance with the calendar and regulations framed by the S.G.B. Amravati University.

#### 2. To motivate the students for research activity by encouraging them to participate in seminar competition, conferences and in Avishkar activity.

College is vibrant in the research activities in this year. Teachers guided the students for various research projects and number of students participated in research festival Avishkar.

### 3.Renovation of old Library:-

College old library is renovated and examination committee and admission committee is shifted from office to this new place.

#### 4. To bring awareness among the society about the Disaster Management through Disaster Management Club.

The activity of Disaster Management Club is very vibrant. The club organizes many awareness programme among the society about the disaster management.

#### 2.16 Whether the AQAR was placed in statutory body

Yes  No   
Management  Syndicate  any other body

Provide the details of the action taken

1. AQAR was passed in the statutory body.
2. The points were discussed regarding the action plan for the academic year 2017-18.

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

## Part – B

### Criterion – I

#### 1. Curricular Aspects

##### 1.1 Details about Academic Programs

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	3	0	3	0
PG	3	0	2	0
UG	12	0	5	0
PG Diploma	0	0	0	0
Advanced Diploma	1	0	1	1
Diploma	1	0	1	1
Certificate	1	0	1	1
Others	0	0	0	0
<b>Total</b>	21	0	13	3
Interdisciplinary	0	0	0	0
Innovative	0	0	0	0

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options CBCS (PG)  
Open Option (UG)  
(ii) Pattern of programs:

Pattern	Number of programmes
Semester	15
Trimester	0
Annual	3

##### 1.3 Feedback from stakeholders\*

Alumni

Parents

Employee

Students

*all aspects*

Mode of feedback

: Online

Manual

Co-operating schools (for PEI)

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

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

Revision in the syllabi of M.Sc.II(Mathematics).Sem III,IV

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

Nil

**Shri R L T College of Science, Akola**  
**Analysis of Feed Back from students on Curriculum**  
**(Four point scale)**  
**B.Sc. III (2016-17)**

Sr. No.	Question	Average Score	Changes suggested /suggestions given
1.	How do you rate the syllabus of the courses that you have studied in relation to its difficulty level?	4	Application oriented experiments /practical be added
2.	How do you rate the allocation of the units in the syllabus relevant to the courses?	4	-
3.	How do you rate the distribution of the contact hour among the courses component (L –T- P)?	3	-
4.	How do you rate the evaluation scheme design for each of the course?.	3	Evaluation be transparent and more objective
5.	How do you rate the current syllabus in context of time span?	3	Syllabus is bulky ,working hours /teaching hours be increased
6.	How do you rate the courses in context of employability?	4	-
7.	How do you rate the sequence in current syllabus to that of previous semester?	4	-
8.	How do you rate the courses in relation to real life application?	3	-
9.	How do you rate the effectiveness of the text books and reference books in context of the courses?	4	-
10.	How do you rate competencies expected out of the course?	3	-

**Shri R L T College of Science, Akola**  
**Analysis of Feed Back from students on Curriculum**  
**(Four point scale)**  
**M.Sc.II, Chemistry (2016-17)**

<b>Sr. No.</b>	<b>Question</b>	<b>Average Score</b>	<b>Changes suggested /suggestions given</b>
1.	How do you rate the syllabus of the courses that you have studied in relation to its difficulty level?	3	Difficulty level be deepened to enhance basic knowledge Basic level courses be simplified
2.	How do you rate the allocation of the units in the syllabus relevant to the courses?	4	-
3.	How do you rate the distribution of the contact hour among the courses component (L -T- P)?	3	-
4.	How do you rate the evaluation scheme design for each of the course?.	2.5	Evaluation scheme design be improved
5.	How do you rate the current syllabus in context of time span?	4	-
6.	How do you rate the courses in context of employability?	4	-
7.	How do you rate the sequence in current syllabus to that of previous semester?	4	-
8.	How do you rate the courses in relation to real life application?	4	-
9.	How do you rate the effectiveness of the text books and reference books in context of the courses?	3.5	-
10.	How do you rate competencies expected out of the course?	3.5	-

**Shri R L T College of Science, Akola**  
**Analysis of Feed Back from students on Curriculum**  
**(Four point scale)**  
**M.Sc.II , Microbiology (2016-17)**

Sr. No.	Question	Average Score	Changes suggested /suggestions given
1.	How do you rate the syllabus of the courses that you have studied in relation to its difficulty level?	4	No suggestions
2.	How do you rate the allocation of the units in the syllabus relevant to the courses?	3.5	-
3.	How do you rate the distribution of the contact hour among the courses component (L –T- P)?	3.5	-
4.	How do you rate the evaluation scheme design for each of the course?.	3.5	-
5.	How do you rate the current syllabus in context of time span?	4	-
6.	How do you rate the courses in context of employability?	3.5	-
7.	How do you rate the sequence in current syllabus to that of previous semester?	4	-
8.	How do you rate the courses in relation to real life application?	3.5	-
9.	How do you rate the effectiveness of the text books and reference books in context of the courses?	3.5	-
10.	How do you rate competencies expected out of the course?	3	-

**Shri R L T College of Science, Akola**  
**Analysis of Feed Back from students on Curriculum**  
**(Four point scale)**  
**M.Sc.II, Mathematics (2016-17)**

Sr. No.	Question	Average Score	Changes suggested /suggestions given
1.	How do you rate the syllabus of the courses that you have studied in relation to its difficulty level?	4	-
2.	How do you rate the allocation of the units in the syllabus relevant to the courses?	3.5	Units from syllabus be restructured and balanced
3.	How do you rate the distribution of the contact hour among the courses component (L –T- P)?	3.5	More time be provided for lectures/tutorials
4.	How do you rate the evaluation scheme design for each of the course?.	4	-
5.	How do you rate the current syllabus in context of time span?	3.5	-
6.	How do you rate the courses in context of employability?	3.5	More weightage be given for applications
7.	How do you rate the sequence in current syllabus to that of previous semester?	4	-
8.	How do you rate the courses in relation to real life application?	3.5	-
9.	How do you rate the effectiveness of the text books and reference books in context of the courses?	3.5	Text books be written for clear determination of the scope of the syllabus
10.	How do you rate competencies expected out of the course?		-

Analysis of feedback on curriculum from parents

Shri R L T College of Science, Akola

Session: - 2016-2017

Feedback on Curriculum from Parents

Parents are requested to objectively express their evaluation of curriculum based on five point scale (5)= Excellent (4) = Very good (3) =Good (2) =Average (1) =Below average.

Parents have to write in the Box Only the figures from 5,4,3,2,1 as the case may be.

You may reveal your identity, if you so desire.

Name of the parent (No.) :- 10

Subjects offered by ward :- Chemistry

Class :- M.Sc.I/II( Chemistry)

- 1) The vision and mission of the institution is properly reflected in the curriculum. (5.00)
- 2) The educational principle "Easy to Difficult" is followed in the curriculum. (5.00)
- 3) The way in which teaching of Theory and Practical work in laboratory go hand in hand is (5.00)
- 4) Inter subject /Inter Disciplinary approach is (4.00)
- 5) Contribution to the National Development in respect of Science & Technology. (5.00)
- 6) Innovative ideas/Research attitude is developed in the students by following this Curriculum. (4.00)
- 7) The curriculum is relevant to the needs of community at large. (5.00)
- 8) The curriculum will enable the students to acquire entrepreneurial skills. (4.00)
- 9) Teaching of syllabi is effectively completed within specified period. (4.00)
- 10) The curriculum of the course offered may be rated at par with national/ International standard. (4.00)

Date:-

Total Marks ( )



Analysis of feedback on curriculum from parents

**Shri R L T College of Science, Akola**

Session: - 2016-2017

Feedback on Curriculum from Parents

Parents are requested to objectively express their evaluation of curriculum based on five point scale (5)= Excellent (4) = Very good (3) =Good (2) =Average (1) =Below average. Parents have to write in the Box Only the figures from 5,4,3,2,1 as the case may be.

You may reveal your identity, if you so desire.

Name of the parent (No.) :- 10

Subjects offered by ward :- Microbiology

Class :- M.Sc.I/II(Microbiology)

- 1) The vision and mission of the institution is properly reflected in the curriculum. (5.0)
- 2) The educational principle "Easy to Difficult" is followed in the curriculum. (5.0)
- 3) The way in which teaching of Theory and Practical work in laboratory go hand in hand is (5.0)
- 4) Inter subject /Inter Disciplinary approach is (5.0)
- 5) Contribution to the National Development in respect of Science & Technology. (5.0)
- 6) Innovative ideas/Research attitude is developed in the students by following this Curriculum. (5.0)
- 7) The curriculum is relevant to the needs of community at large. (4.0)
- 8) The curriculum will enable the students to acquire entrepreneurial skills. (5.0)
- 9) Teaching of syllabi is effectively completed within specified period. (5.0)
- 10) The curriculum of the course offered may be rated at par with national/ International standard. (4.0)

Date:-

Total Marks ( )

## Analysis of feedback on curriculum from parents

### Shri R L T College of Science, Akola

Session: - 2016-2017

#### Feedback on Curriculum from Parents

Parents are requested to objectively express their evaluation of curriculum based on five point scale (5)= Excellent (4) = Very good (3) =Good (2) =Average (1) =Below average. Parents have to write in the Box Only the figures from 5,4,3,2,1 as the case may be.

You may reveal your identity, if you so desire.

Name of the parent (No.) :- 10

Subjects offered by ward :- Mathematics

Class :- M.Sc.I/II(Mathematics )

- 1) The vision and mission of the institution is properly reflected in the curriculum. (4.5)
- 2) The educational principle "Easy to Difficult" is followed in the curriculum. (4.0)
- 3) The way in which teaching of Theory and Practical work in laboratory go hand in hand is (4.5)
- 4) Inter subject /Inter Disciplinary approach is (5.0)
- 5) Contribution to the National Development in respect of Science & Technology. (4.0)
- 6) Innovative ideas/Research attitude is developed in the students by following this Curriculum. (4.0)
- 7) The curriculum is relevant to the needs of community at large. (4.5)
- 8) The curriculum will enable the students to acquire entrepreneurial skills. ( 5.0)
- 9) Teaching of syllabi is effectively completed within specified period. (4.0)
- 10) The curriculum of the course offered may be rated at par with national/ International standard. (4.0)

Date:-

Total Marks ( )

## Analysis of feedback on curriculum from parents

### Shri R L T College of Science, Akola

Session: - 2016-2017

#### Feedback on Curriculum from Parents

Parents are requested to objectively express their evaluation of curriculum based on five point scale (5)= Excellent (4) = Very good (3) =Good (2) =Average (1) =Below average. Parents have to write in the Box Only the figures from 5,4,3,2,1 as the case may be.

You may reveal your identity, if you so desire.

Name of the parent (No.) :- 20

Subjects offered by ward :- Physics,Chemistry ,Mathematics

Class :- B.Sc.III

- 1) The vision and mission of the institution is properly reflected in the curriculum. (5.00)
- 2) The educational principle "Easy to Difficult" is followed in the curriculum. (5.00)
- 3) The way in which teaching of Theory and Practical work in laboratory go hand in hand is (5.00)
- 4) Inter subject /Inter Disciplinary approach is (4.50)
- 5) Contribution to the National Development in respect of Science & Technology. (5.00)
- 6) Innovative ideas/Research attitude is developed in the students by following this Curriculum. (5.00)
- 7) The curriculum is relevant to the needs of community at large. (4.50)
- 8) The curriculum will enable the students to acquire entrepreneurial skills. ( 5.00)
- 9) Teaching of syllabi is effectively completed within specified period. (5.00)
- 10) The curriculum of the course offered may be rated at par with national/ International standard. (4.50)

---

Date:-

Total Marks ( )

# Shri R L T College of Science, Akola

## Analysis of Feed Back from Alumni on Curriculum

(2016-17)

- 1) How do you rate this present syllabus on a 10-Point Scale?

**Average Score 6.5**

- 2) Do you find the syllabus (UG & PG Courses ) threadbare for students to prepare them for entrance examinations of professional courses ?

**35% feel that the syllabus is sufficient.**

- 3) Is this syllabus industry oriented?

**In case of Biology group , 65 % feel that the syllabus is industry oriented.**

**In case of Mathematics group , 60 % feel that the syllabus is employment oriented.**

- 4) How do you rate the syllabus particularly from semester/annual pattern point of view?

**95 % Alumni are favouring semester/ CBCS pattern.**

- 5) Give your opinion as to whether the present syllabus is useful for students to prepare them for presentation in seminar/conferences at university/state/national level.

**75 % Alumni agree that the syllabus is useful for the said purpose.**

- 6) Give your opinion about distribution of academic work in Lectures/Tutorials/Practicals.

**40 % of the Alumni are of the opinion that the tutorials be increased.**

## Criterion – II

### 1. Teaching, Learning and Evaluation

**2.1** Total No. of permanent faculty

Total	Asst. Professors	Asso. Professors	Professors	Others
23	16	04	01	02

**2.2** No. of permanent faculty with Ph.D.

14

**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
00	26	00	00	00	00	00	00	00	26

**2.4** No. of Guest and Visiting faculty and Temporary faculty

04	00	98
----	----	----

**2.5** Faculty participation in conferences and symposia

No. of Faculty	International level	National level	State level
Attended	07	13	02
Presented	07	13	00
Resource Persons	00	02	01

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

Use of ICT technology, e-learning, power point presentations, video clips, documentaries during teaching. Project work. Organization of seminars, guest lectures, group discussions for students.

**2.7 Total No. of actual teaching days during this academic year**

184

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

Regular conduction of unit/class tests in 100% copy free environment. MCQ's. Evaluation with cross checking by students. Finalization of marks in presence of student.

**2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop**

00

00

01

**2.10 Average percentage of attendance of students**

80

**2.11 Course/Programme wise distribution of pass percentage**

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Summer-2016						
B.Sc.-III (Sem-VI)	296	---	38.51	02.02	---	67.57
M.Sc.-II (Math) (Sem-IV)	66	06.06	25.75	---	---	53.03
M.Sc.-II (Chem) (Sem-IV)	16	12.50	50.00	---	---	93.75
M.Sc.-II (Micro) (Sem-IV)	16	43.75	37.50	---	---	87.50

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

The IQAC plays a role of a general academic advisor to the college.

The details of the programmes organized by the IQAC of college for the students and staff during the session 2016-17 are as follows.

1. 18th Annual Convention and Seminar on "Recent Advances in Electrochemistry" was organized on 21.08.2016.
2. Motivational, inspiring and guidance lectures of following eminent personalities have been organized.
  - i. Dr. Avinash Fulzele, Dr. Ambedkar College, Nagpur on the topic "Dr. Babasaheb Ambedkar and their Scientific View" on 21.12.2016.
  - ii. Dr. Madhavi Thakare, Scientist, ISRO, Ahmedabad on the topic "Mars Mission" on 24.12.2016.
  - iii. Dr. Kalpana Surwade, Deputy Director, Health Department, AMC, Akola on the topic "Prospectus of Students in Civil Services Examination" on 14.04.2017.
3. Guest lecturers of following academicians have been organized.
  - i. Prof. Dr. A. K. Srivastava, BSR Fellow, Former Head, Department of Chemistry, University of Mumbai, Mumbai on the topic "Recent Advances in Electrochemistry" on 21.08.2016.
  - ii. Prof. Dr. R. B. Mohod, Assistant Professor, Department of Chemistry, Shri Shivaji College of Arts, Commerce and Science, Akola on the topic "Reaction Mechanism of Transition Metal Complexes" on 05.03.2017.
  - iii. Prof. Dr. P. S. Pande, Assistant Professor & Head, Department of Chemistry, Shankarlal Khandelwal College, Akola on the topic "Retrosynthesis" on 10.03.2017.
  - iv. Prof. D. S. Khaire, Department of Zoology, Govt. Vidarbha Institute of Science and Humanities, Amravati on the topic "D.N.A. Finger Printing and Biotechnology" on 11.03.2017.
4. Internet connections with broadband facilities are made available in all the departments, library and administrative office. The WI-FI network is also established in some areas.
5. Co-curricular activities like guest lectures, seminars, group discussions, aptitude tests, concept tests, paper presentation, projects based on the syllabus are conducted by various departments for the students.
6. Educational study tour and industrial visits of the students are arranged.
7. Students are encouraged to participate in workshops, seminars, research festival - Avishkar.
  - i. No. of colour coats awarded by the university to the students participated in state level research festival - Avishkar : 5
  - ii. No. of students participated in university level research festival - Avishkar : 13
8. The IQAC motivates the faculty members to attend the orientation programmes, refresher courses, short term training programmes and syllabus based talks regularly.
9. The IQAC encouraged faculty members to participate in research oriented work, programmes and to publish that in journals of national and international repute.

### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	00
UGC – Faculty Improvement Programme	--
HRD programmes	--
Orientation programmes	03
Faculty exchange programme	--
Staff training conducted by the university	--
Staff training conducted by other institutions	--
Summer / Winter schools, Workshops, etc.	--
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	13	04	00	03
Technical Staff	31	26	00	17



## Criterion – III

### 2. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

-IQAC meets monthly to discuss various plans to promote research climate and motivate the faculty for academic advancement.

-Informed staff about various scheme and fellowships of the UGC, DST, DBT etc. and encouraged them to apply for the same.

-Encourage to teaching staff to organise seminar, workshop and conferences etc. During session 2016-17, two proposals of national conferences are applied to the UGC for financial assist.

-Encourages the staff members to undertake major and minor research project. During session 2014-15, three minor research projects are applied out of which one minor research project is sanctioned.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	01	00	00
Outlay in Rs. Lakhs	9,79,800	24,49,000	00	00
Name of Faculty	Dr.V.D.Nanoty	Dr.A.G.Sarap		

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	04	01	0
Outlay in Rs. Lakhs	1,20,000	8,65,000	4,35,000	0
Name of Faculty	R.D. Chandravanshi	UKB, PTA, PRK PMK	Prof V.N.Badgujar	

3.4 Details on research publications

	International	National	Others
Peer Review Journals	15	00	00
Non-Peer Review Journals	00	02	01
e-Journals	01	00	00
Conference proceedings	00	04	00

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	3	UGC	24,49,000	-
Minor Projects	2	UGC	4,35,000	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects ( <i>other than compulsory by the University</i> )	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	28,84,000	00

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

Non-remunerative

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-	-	00	02	03
Sponsoring agencies				*Amravati University Chemistry Teachers Association (AUCTA), *Department of Life Long Learning , SGB A U, Amravati.	IQAC-College

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

(BSW, SRK, ASS, PTA)

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
-	-	-	-	02	-	-

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

State level

National level

International level

3.22 No. of students participated in NCC events:

University level	<input type="text" value="35"/>	State level	<input type="text" value="01"/>
National level	<input type="text" value="01"/>	International level	<input type="text" value="00"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="01"/>	State level	<input type="text" value="01"/>
National level	<input type="text" value="00"/>	International level	<input type="text" value="00"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="-"/>	State level	<input type="text" value="01"/>
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="03"/>	College forum	<input type="text" value="06"/>		
NCC	<input type="text" value="4"/>	NSS	<input type="text" value="10"/>	Any other	<input type="text" value="01"/>

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

- Apart from the academic work college encourages the faculty and students to carry out various activities relating to extension and social responsibilities.
- **Welcome Address Day (11 July ):** organised for newly admitted B.Sc.I year students in which students were being informed about the proposed academic calendar, various UGC scheme available for the m and activities of the college for the welfare of the students.
- Conduct “act now” program on “**Bharat Swachyata Abhiyan**” and conduct campus cleanliness activity in the college and nearby area on 2 Oct .
- **Voters Awareness Campaign** organised by the college to aware the students for voters enrolments and voting awareness
- **Organised AUCTA’s 18<sup>th</sup> Annual Convention and Seminar on Recent Advances in Electrochemistry (21 Aug 2016):** in collaboration with IQAC to aware students about explore of techniques in development of Chemistry.
- Organized “Blood Donation camp” on the occasion of death anniversary of late Principal M.G.Joshi on **24 Dec**
- Online “**Spoken-tutorial workshop**” was organized in association with IIT, Bombay
- **National Science Day:** College organized “**Science-Pundit 2016**” Science exhibition and competition on the occasion of National Science Day on 28 Feb
- Under the extension and community development, Physical Education director developed a Physical Fitness Centre and Coaching in Judo, Wrestling , Boxing under the guidance of Physical Director R.D. Chandravanshi, who provide physical fitness training and coaching for Judo, Wrestling and Boxing games to the players of different schools, colleges and players, with no fees and also organised inter collegiate tournament.
- Apart from this, college faculty and students actively take parts in various social activities through NSS, NCC, Youth festival, AVISHKAR-students research festival, NSS camp, HIV-ADIS awareness camp, Health check up camp, Women convention and awareness campaign, legal literacy/ aid club etc.

## 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	<b>1.796acres</b>	<b>0</b>	..	<b>1.796acres</b>
Class rooms	<b>21</b>	<b>0</b>	..	<b>21</b>
Laboratories	<b>21</b>	<b>0</b>	..	<b>20</b>
Seminar Halls	<b>01</b>	<b>0</b>	..	<b>01</b>
No. Of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	..	..	..	
Value of the equipment purchased during the year (Rs. in Lakhs)	<b>.79 Lakhs</b>	..	<b>college</b>	
Others <b>Girls Hostel</b>	<b>01</b>	<b>0</b>	..	<b>01</b>

#### 4.2 Computerization of administration and library

**Yes, Library and Administration are computerised.**

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	<b>19283</b>	<b>1847322/-</b>	<b>13224</b>	<b>923660/-</b>	<b>132507</b>	<b>2770982/-</b>
Reference Books	<b>11807</b>	<b>94980/-</b>	<b>882</b>	<b>615776/-</b>	<b>12689</b>	<b>710756/-</b>
e-Books	<b>93809</b>	..	..	..	<b>93809</b>	..
Journals	<b>14</b>	<b>20548/-</b>	..	..	<b>14</b>	<b>20548/-</b>
e-Journals	<b>4137</b>	..	..	..	<b>4137</b>	..
Digital Database	<b>0</b>	<b>0</b>	..	..	<b>0</b>	<b>0</b>
CD & Video	<b>131</b>	-	..	..	<b>131</b>	-
Others (specify)Maps	<b>15</b>	..	..	..	<b>15</b>	..

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	91	46	52	..	06	07	14	Digital room
Added	<b>01</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>01</b>
Total	<b>92</b>	<b>46</b>	<b>52</b>	<b>0</b>	<b>06</b>	<b>07</b>	<b>14</b>	<b>01</b>

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

**ICT Workshop for school teachers was organized.**

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

i) ICT

**3.83 lakhs**

ii) Campus Infrastructure and facilities

**33.76 lakhs**

iii) Equipments

**0.79 lakhs**

iv) Others

**5.31 lakhs**

**Total :**

**42.92 lakhs**



## Criterion – V

### 5. Student Support and Progression

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

- Wi-Fi connectivity is made available throughout the campus for enhancing the knowledge with easy digital access.
- Induction day was celebrated for the fresher's to brief them overall activities of college in throughout coming session.
- SC,ST, OBC,VJNT and other Students are encouraged to continue their education by way of Scholarships from Government and Non – Government Organizations
- Subject wise special coaching classes for slow learners are conducted during the off periods.
- College was regularly organised guest lectures, seminars, workshops, conferences, industry visits; in-plant training, internships and campus connect programmes for the welfare of the students.
- Placement Cell organizes various interviews to mould the students with core competence and employability.
- Library and Information Centre is equipped with various books, references, journals and e-journals to supplement the thrust of students and to enrich their self-learning ability.
- IQAC provides information about the various college activities & UGC scheme to students at institutional and different level.
- IQAC is prepared Annual Quality Assurance Report for submission to NAAC.

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

- Tracking the progress of students through unit Test, Assignments, Seminar, Counseling & Poster Presentation.
- Various committees are actively run to support the students such as Student welfare.
- Periodic Parent - Teachers meeting is organized to convey the progress of wards.
- Academic audit is being conducted every semester to evaluate the progress.
- 24<sup>th</sup> December 2016 College organizes felicitation programme for academic achievements of the students in which number of cash prizes awarded to the meritorious students.
- 26<sup>th</sup> January 2017 on Republic Day after Flag Hoisting Ceremony a special progamme was arranged to appreciate & felicitate students for their achievements in various fields.
- Active Alumni committee is always stay in touch of alumni students regarding placement and guidance about career.
- Every Year Teaching learning process & General college evaluation taken by the students.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1312	258		-----

(b) No. of students outside the state

01

(c) No. of international students

00

(d) Men

No	%
459	29.24%

Women

No	%
1111	70.76%

Last Year (2015-2016)						This Year (2016-2017)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
321	195	17	871	01	1405	355	231	29	953	02	1570

Demand ratio 1:1

Dropout 3%

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

- ❖ The college has been conducted Coaching Classes for NET/SET for SC/ST/OBC (Non Creamy layer) & Minorities.
- ❖ The college has been conducted Coaching Classes for Entry in to services for SC/ST/OBC (Non Creamy layer) & Minorities.
- ❖ The college is established competitive examination study centre.

No. of students beneficiaries

91

5.5 No. of students qualified in these examinations

NET	0	SET/SLET	0	GATE	0	CAT	0
IAS/IPS etc	0	State PSC	0	UPSC	0	Others	5

### 5.6 Details of student counselling and career guidance

- ❖ The college has been conducted Coaching Classes for NET/SET for SC/ST/OBC (Non Creamy layer) & Minorities.
- ❖ The college has been conducted Coaching Classes for Entry in to services for SC/ST/OBC (Non Creamy layer) & Minorities.
- ❖ Self Defense Academy, Health Club Facilities & Physical Fitness Classes help the students to keep them physically fit for defense related jobs in the evening throughout the year.
- ❖ Career Guidance and Placement Cell provides guidance and counseling to the students regarding higher studies and placement.
- ❖ Career Counseling Cell arranges campus interviews for placement in various organizations.
- ❖ Dr. Madhavi Thakare, Scientist ISRO, former student of our college is addressed the students and guided for option available for bright career in space research on 24th December 2016.

No. of students benefitted

200

### 5.7 Details of campus placement

On campus		Off Campus	
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
00	00	00	05

### 5.8 Details of gender sensitization programmes

- ❖ Women Development Cell organizes several programmes to enhance the confidence level of girl students for their empowerment in the society.
- ❖ Code of Conduct, Grievance Committee & Vishakha Committee are working smoothly for the gender sensitization and conduct meetings for redressing the issues.
- ❖ In 2016-2017 no women's issues and matters were reported.
- ❖ Main function of Code of Conduct & Grievance Committee is to sensitize women issues through various programmes.
- ❖ Personal and academic related problems of women are counselled and solved.

### 5.9 Students Activities

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

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  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

**All type of scholarship and financial support schemes related to our college are  
Under in office process at government level**

	Number of students	Amount
Financial support from institution	<b>00</b>	<b>00</b>
Financial support from government	<b>00</b>	<b>00</b>
Financial support from other sources	<b>00</b>	<b>00</b>
Number of students who received International/ National recognitions	<b>00</b>	<b>00</b>

### 5.11 Student organized / 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**

14

**5.13 Major grievances of students (if any) redressed:**

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## Criterion – VI

### 6. Governance, Leadership and Management

#### **6.1 State the Vision and Mission of the institution**

**Vision-** To become one of the best educational Institutions in the country aspiring for national recognition of excellence through teaching learning research and extension in the field of science and technology.

**Mission-** Shri Radhakisan Laxminarayan Toshniwal College of science dedicates itself to the cause of science education and propagation of scientific temper in students; it seeks to mould the students in to multifaceted person with a pragmatic mind and human outlook capable of facing the challenges of 21<sup>st</sup> century. Shri R. L. T. College expects every student entering its portal to be a disciplined, hardworking, well read member of community ready to give his best to the country.

#### **6.2 Does the Institution has a Management Information System**

Yes, web based MIS uses computer technology to provide information and decision support Universities and helping them becomes more effective. as Government of Maharashtra endeavored to collect the higher educational statistics through web based management information system. College has **MIS** using which data is being collected on parameters such as Teachers, Students enrollment programmes, examination results, education, infrastructure, finance etc.

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

#### **6.3.1 Curriculum Development**

Information provided to the University about the syllabus framing and development and changes that should be incorporated in curriculum.

All U.G. and P.G. syllabus were revised by the University on the basis of UGC guidelines and local needs.

### **6.3.2 Teaching and Learning**

**Teaching and Learning** -The College organizes many arrangements to improve teaching and learning processes as follows.

1. By giving protocol to each student and faculty
2. Providing internet access to all the departments
3. Participation in departmental activities by enrolling in various subjects
4. It is impressed on the mind of the student that social good is more important than the personal well being
5. Creation of this firm conviction in their minds helps in making them well integrated personalities and good citizen of the country
6. By providing departmental library facility to students.
7. Faculty members of various departments adopt strategies like academic counseling, extra classes and tutorials for the slow learners so that they can cope with the programme in which they are enrolled. Easy learning notes are provided to them.
8. It has been observed that the communication skill of the rural students is weak so the college has a strategy to expose such students to English speaking through special arrangement. Extra classes are arranged for late admitted students.
9. The remedial coaching is given to the student's along with the NET/SET and MPSC/UPSC entry in services classes.
10. The add on certificate programmes i.e CCLT, DCLT and ADCLT are also run by the college to bridge the knowledge.
11. Through the assessment of classroom performance and performance in unit test/class test question answer session, discussion and past academic record, the students with advanced learning capabilities are identified.
12. College conducts the unit test and class test examinations prior to the annual and semester end examinations of Sant Gadge Baba Amravati University Amravati and on the basis of the performance in these examinations, the students who are weak in their studies and performing below the average are identified.

### **6.3.3 Examination and Evaluation**

1. Regular conduction of unit class tests.
2. Evaluation with cross checking by students. Finalization of marks in presence of student.
3. The answer sheets were evaluated by the respective teaching Staff. The results of all Subjects were declared and displayed on the Respective notice boards which helped the Students to acquire good Rankings in their University Examinations.
4. Question bank is made available to the students and students are assisted in solving them.
5. The internal examination and evaluation are transparent.
6. Test Practical examinations are also conducted by each department after the completion of the course.



#### **6.3.4 Research and Development**

1. College has established the research cell and faculty members involve themselves in research work. Research committee has decided to guide and motivate the newly appointed faculty members to do research and submit major and minor research projects from UGC. Microbiology, Chemistry and Maths departments have established dedicated research facilities. College library has provided inflibnet access to e-journals.
2. College authorities motivate faculties for MRP.
3. College promotes faculties to participate in orientation and refresher course(03).
4. Guidance to students for participating avishkar research festival and for paper/poster presentation in conferences/symposia/seminars.
5. Each department fully equipped with the instruments through the financial assistance given by UGC.
6. There are 4 recognized research supervisors.
7. There has been marked improvement in research activities after the III<sup>rd</sup> cycle of accreditation (NAAC awarded A Grade with CGPA 3.12) .
8. Three faculties had been awarded with Ph. D this year.
9. One Major research project was completed and total four minor research projects was completed.
10. Ms.Preeti Sharma, Ms. Deepali Paraskar, Mr. Saurabh Mhatre awarded Ph.D. by S.G.B. Amravati University, in Microbiology.
11. Ms.P.R.Chitlange submitted Ph.D Thesis in subject Microbiology from the college.
12. All the staff members are actively participating in conferences and many papers are published by the faculty member in reputed journals.
13. College motivates students for participation in Avishkar research festival, this year .....11 participated in Avishkar and 5 students received color coat. All these were selected for the state level Avishkar research festival.
14. Faculty members participated in international and National conferences and published 30 papers and 30 paper presentations .
15. College also organizes Science Pundits exhibition competition on 28 February on the eve of Science day and this year awarded Science Pandit to Nishi Kedia (2016-17).

### **6.3.5 Library, ICT and physical infrastructure / instrumentation**

1. The institute has been augmenting infrastructure facilities like extension of class room, auditorium, and separate wing for administration office, separate NSS and NCC room, Separate room for career counseling cell, Virtual room, and Seminar room, deployment of research laboratories through government /UGC funds and parent society funds.
2. Women's hostel with a capacity of 55 is available in the college campus(2016-2017).
3. Additional facility for sport, Gymnasium, Canteen, ladies common room, girl's room, vehicle parking, and Botanical garden are provided.
4. Separate Network resource centre (NRC) at Library is also provided.
5. Library is well-equipped with reprographic facilities and broad band internet facility in NRC.
6. Library advisory committee assists the development of the library which has a sizable collection of books and 14 journals.
7. Institute has its own website [www.rltsc.org](http://www.rltsc.org) and is updated regularly.
8. Maximum departments are provided with computer and make use of ICT as and when needed.
9. Department offering computer science and IT have procured licensed software and promote ICT supported learning.

### **6.3.6 Human Resource Management**

1. Human resource management is a very sensitive area where the college adheres to the Principal of discipline but with a warm human touch. The administration has developed mechanism to watch each and every employed closely and at the same time it take care to keep him/her at a comfort level so that he/she could work sincerely/punctually and efficiently to the maximum of his/her capacity. The various members of faculty get useful administrative experience and a sense of meaningful involvement in decision making process.
2. Sanctioned post is always filled and recruitment is done as per State Govt. and University norms.
3. For self financed courses temporary appointments are made along with clock hour basis.
4. Teachers are encouraged to participate in refresher /Orientation / Seminars / Conference.

### **6.3.7 Faculty and Staff recruitment**

1. Sanctioned post is always filled and recruitment is done as per State Govt. and University norms.
2. For self financed courses temporary appointments are made along with clock hour basis.
3. As per direction of Joint Director of Amravati 10 post of Assistant Professors were recruited (2016-2017).

### **6.3.8 Industry Interaction / Collaboration**

Some of the departments of college has collaboration with different industry and institution like-

1. CDRI (Central Drug Research Institute) lucknow
2. Adarsha Goseva Plant, Mhaispur.
3. MSI (Microbiologist Society India).

### **6.3.9 Admission of Students**

1. College authority allow student of poor section of society to pay fees on installment basis.
2. Fee relaxation and concession provided to the needy and poor students.
3. Counseling of students to formulate the barrier free admission process.
4. Reservation policies followed and admission are given on first come first basis in UG and on merit basis for PG and some course of UG.
5. Admission process is transparent and wide publicity is given to the process through prospectus, paper advertisement and notice board. The admission process is computerized.

**6.4 Welfare schemes for**

<b>Teaching</b>	<b>Medical facility provided by college.</b>
<b>Non teaching</b>	Festival advance scheme, uniform distribution, Medical facility. Loan facility
<b>Students</b>	1. uniform, books distribution 2. Scholarship and prizes to the merit students.

**6.5 Total corpus fund generated**

7855/-

**6.6 Whether annual financial audit has been done**

Yes  No

**6.7 Whether Academic and Administrative Audit (AAA) has been done?**

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic			√	Principal
Administrative			√	Principal

**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?**

1. Many examination reforms are made by the university as per the demand of time following the pattern of semester, college adopted the pattern of internal assessment where assignment/project work/group discussion/seminars are conducted along with the class test and marks are paid according to the performance of student.
2. University made the changes in the pattern of papers, as paper is consists of objective and descriptive type.
3. At Post graduate level as per the instruction of UGC university adopted the CHOICE BASED CREDIT SYSTEM (grade system).

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

Nil

## **6.11 Activities and support from the Alumni Association.**

The Alumni Association acts as a link between the illustrious alumni of RLT and the students and faculty of the college. Through its various events, the Alumni Association endeavors to enable the alumni to play a pro-active role in the day to day functioning of college, its student initiatives and events. The Association consists of a parent body consisting of prominent alumni, and a student wing of current students of RLT. The association actively participates in different college functions.

### **Following are the activities through which the Alumni are associated with the college.**

- ✓ Every year on 24<sup>th</sup> December, in the memory of 'Late M.G. Joshi (Principal), Alumni Day is celebrated & a Blood Donation Camp is organized in collaboration with the college authorities in the college campus in which Alumni participates enthusiastically.
- ✓ To create awareness about eye donation, an 'Eye Donation' camp was organized by the Alumni Association.
- ✓ Students are welcomed at the commencement of session. Meritorious students are felicitated by the Alumni.
- ✓ Financially weaker students are supported by providing guidance and uniforms, books & other stationery items.
- ✓ Career Guidance seminars are arranged by the alumni association. Experts and eminent Alumni, working in varied fields are invited for guiding the students.
- ✓ The Alumni Association has supported the college authorities in setting up of a biogas plant and installing solar lamps in the college campus.
- ✓ With the help of the our alumnus Dr. Nitin Oke, the College has established a "Sky Observer Club" for cultivating interest among students for Astronomy and allied fields.
- ✓ The Alumni Association has supported the College in establishing rain water harvesting system. The Alumni have also participated in tree plantation drives organized by the college for the conservation of environment.
- ✓ Medicines and vaccines are provided by the Alumni Association during the NSS activities conducted in various villages.
- ✓ A "Suvichar" board has been set up in the College campus in order to inculcate good values among the students and to motivate them.
- ✓ Various cultural programmes are organized by the Alumni to entertain and promote various arts and cultures.

The Alumni Association has always been to the forefront in making efforts for the betterment of the College and inspiring the youngsters.

## **6.12 Activities and support from the Parent - Teacher Association**

Parent Teacher Association (PTA) of Shri R.L.T. College of Science, Akola is a formal organization composed of parents of all students and teaching staff members of the degree college. At local level, the goal of PTA is to encourage parent involvement, support teachers and organize events to support college.

Parent Teacher Association encouraged and motivated parents to participate in various college activities and provide supports to college as-

- Parent teachers association distributed Uniform and study material to the needy people
- Parents actively took part in blood donation camp and attended prize distribution ceremony (24/12/2016).
- PTA helped NSS department in social activities like donation of Blankets to the needy people, books and sport material to primary school children, distribution of medicine, voluntary service in health check up camp at adopted gram Sonala (03-01-2017 to 10-01-2017).
- Attended felicitation programme organized on the eve of Republic Day (26/01/2017).
- Visited science project competition and exhibition 'Science Pundit 2017' to motivate and appreciate students (28/02/2017)
- Parents supported the student's activities in sports, seminars, competitions, youth festival etc. by encouraging and sometime actually accompanying with their wards.

Thus, PTA provides a common forum for interaction of parents, teachers and students so as to improve facilities for academic excellence and supports college.

### 6.13 Development programmes for support staff.

*College is fully concentrating towards the faculty improvement by various programme.*

**Refresher course:** Teachers are allowed to participate in different orientation/refresher courses. The following are teachers who participated in refresher course.

1. Dr. Kavita Heda.
2. Dr. Anjali Sangole.

- **Ph.D. :** In our college some teachers are registered for Ph.D., some are awarded and some teachers submitted their Ph.D. thesis as follows.
  - **Thesis Submitted:** Mr. R. D. Chandrawanshi from Director of physical education submitted their Ph.D. thesis at S.G.B. Amravati University, Amravati.
  - **Awarded:** Dr. Preeti Sharma, Dr. Deepali Paraskar, Dr. Saurabh Mhatre from dept. of Microbiology, has been awarded Ph.D. degree of S.G.B. Amravati University, Amravati(2016-2017).

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

- The **No-vehicle Day** is observed on every 1<sup>st</sup> and 15<sup>th</sup> of each month and the message **Save Petrol and stop rigid use of natural resources** is given and emphasized.
  - The awareness program about Blood Group Detection organized by Department Of Microbiology.
  - The awareness programmes about the **Conservation of Environment** organized by department of Zoology and Botany.
  - NSS volunteers observed **Cleanliness & Plastic Eradication Campaign** in college campus and surrounding area.
7. 1. **MUNIJAN (MAHARASHTRA UNIVERSITIVES NEW INITIATIVES JOINT ACTION NOW):** College NSS unit runs **Swachhata Abhiyan** in the adopted village and area nearby college and public places. Also organizes cleanliness campaign. First Saturday of month is a clean day of college, where all staff members are involved enthusiastically in cleaning, the college premises and areas near by college. They also involve themselves in clean India campaign, in adopted village (Sonala). This year college received best district in cleanliness campaign by the hands of Hon. Vice Chancellor S.G.B. Amravati University, Amravati.
- **Tree plantation** and **tree distribution** programmes were arranged by the NSS unit . Van Mahotsav week is observed from 1-7 June.
  - Tree **RAKSHA BANDHAN** programme was organized by NSS unit giving the message of save tree.
  - In NSS lecture on environment awareness and water conservation given by **Dr. I. A. Raja** and **Shri Rajaram Mhatre**.



**7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.**

- Self Defense Academy is an innovative initiation taken by Sports Department to develop self defense skill with physical fitness among the students, especially among female students. It was observed that Karate training helps to improve student's physical and mental health, build self-esteem and strengthen their self-confidence, improved their academic performance by raising level of energy, focus and concentration.
- To know the value of biodiversity and inculcate environmental consciousness among students, college published Biodiversity Calendar -2017, which is a master piece of efforts taken by students to complete their participatory learning project. Students used this calendar to work as nature messengers for society by organizing environmental awareness workshops and gifting calendars in schools, colleges and society.

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

Plan of Action	Action Taken Report
<ul style="list-style-type: none"> <li>• To frame an administrative and academic calendar</li> <li>• Participatory learning by organizing student's seminars, group discussions, study tours / industrial visits and guest lectures for students.</li> <li>• To organize research oriented, innovative and motivating activities.</li> <li>• Organization of Blood Donation camp</li> <li>• Celebration of special days.</li> <li>• Formation of Self Defence Academy</li> <li>• Organization of meetings.</li> </ul>	<ul style="list-style-type: none"> <li>- Administrative and academic programmes were taken in accordance with the calendar and regulations framed by the S.G.B. Amravati University.</li> <li>- All departments organized and conducted student's seminars. Many students gave power point presentations.</li> <li>- Group discussions were arranged.</li> <li>- Almost all departments organized study tours and/or industrial visits and guest lectures of eminent personalities.</li> <li>- College students presented their innovative projects in University and State level research festivals.</li> <li>- College published Biodiversity Calendar -2017.</li> <li>- Sky Observation Club of college organized various programmes for students and people of village Sonala.</li> <li>- Blood Donation camp was organized in the memory of Late Principal M.G. Joshi (24<sup>th</sup> December).</li> <li>- Birth and death anniversaries of great leaders are observed to follow their foot-prints. Programmes on special days like Teacher's Day, Independence day, Literacy day, NSS day, Republic day (as Achievements day), National Science day etc. were arranged and celebrated.</li> <li>- Self Defence Academy was established by Sport department to give Karate training for students.</li> <li>- Meetings of IQAC, Staff council, Alumni association, Parents-Teachers association, S.R.C. were organized regularly.</li> </ul>

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

**1. Biogas from Kitchen and Food Waste**

**2. Wellness evaluation of female students**

*Please see the details in annexure (annexure No. 3 – i, 3 - ii)*

**7.4 Contribution to environmental awareness / protection.**

- Environmental cell of college undertook various campaigns like – ‘No open fire in campus’ to keep eco friendly college campus; ‘Switch it ON Switch it OFF’ for less electricity consumption; ‘Do not drop litter’ ‘please use the bins provided’; ‘Save Paper Save Trees’; Distribution of seed packets etc. Van Mahotsav: Tree plantation and distribution programme organized. In many programmes of college, guests are honoured by offering saplings instead of bouquet.
- Kitchen and dining waste fed biogas plant is conveniently installed in the girl’s hostel.
- ‘Wild Life Conservation Week’ (1-7 October) was observed by Department of Zoology. Documentary movies, guest lectures, nature trip were organized for students to provide information related to nature and it’s conservation.
- No vehicle day is observed on every 1<sup>st</sup> and 15<sup>st</sup> day of each month to spread the message ‘save petrol, reduce pollution and be healthy’.

- Cleanliness campaign is regularly performed by a committee namely “MUNI JAN (Maharashtra University New Initiatives Joint Action Now)” in college premises, nearby area and adopted village with active participation of students and staff.
- Environmental awareness workshops were organized by Shri R.L.T. College in collaboration with other schools and colleges. Organized guest lecture of Dr. P. S. Dhabe on ‘Forest of Maharashtra’.
- B.Sc II (Botany) students completed an innovative project assignment to make Herbarium and collected detail information related to each plant under guidance of their guardian teacher Dr. Anjali A. Sangole. Exhibition of Medicinal Plants was organized.
- Bird Feeders were distributed among staff and students on International Sparrow Day (20/03/2017).

7.5 Whether environmental audit was conducted?

Yes

No

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

**Strengths:**

- College is well maintained with all necessary facilities and infrastructure.
- Positive experiences with all stakeholders.

**Weaknesses:**

- Irregular Power supply.

**Opportunities:**

- To develop, encourage and motivate the students for scientific study, self confidence and creativity. Number of Research scholars can be increased substantially.
- Because of UGC schemes and funding more facilities can be provided to students.

**Threats:**

- To develop entrepreneurial skills among basic science students is a challenge for teachers.
- Competition by increasing number of colleges in the region.

## *Annexure 3 - i*

### **Best Practice 1.**

#### **Title of the Practice: Biogas from Kitchen and Food Waste**

**Goal:** The aim of the college is to solve the problem of waste disposal from kitchen and dining of girl's hostel as well as garbage of college campus and to generate energy from waste.

**The Context:** The basic concept of this design is based on solving the problem of waste disposal. Food waste generated from kitchen was stored and being collected by Municipal Corporation's garbage pickup agency on daily basis. This system was not hygienic.

#### **The Practice:**

- The plant is conveniently installed near the girl's hostel.
- The plant is running 100 per cent on kitchen, dining waste as well as dry leaves and garbage of college campus.
- The biogas produced is utilised in the hostel kitchen for about 2 to 2 ½ hours per day for cooking.

**Evidence of Success:** An experimental biodegradable waste fed biogas plant in college campus is a best technology for the treatment of kitchen and dining waste. It also becomes an effective tool to serve the fuel supply needs of the hostel.

**Resources Required:** Waste biomaterial, 27-28°C temperature.

**Problems encountered:** No

## *Annexure 3 – ii*

### **Best practice 2.**

**Title:** **Wellness evaluation of female students.**

**Goal:** To create health awareness among girl students.

**The context:** Proportion of female students in our college is more than 75%. Majority of girl students for degree courses are in the age group 18-21 years. It is observed that numbers of students are anaemic and few are obese too. Many are from rural area. Due to social bias and cultural influence, rural girls and women have limited knowledge about various health issues including reproductive health. Hence, attempts are made to create awareness through various activities.

### **Practice:**

- Medical checkup and physical efficiency test for all students is organized every year in the college. Suggestions are given by the experts to improve medical and physical fitness of the candidates.
- Girl students are encouraged to participate in various sports activities.
- Health club facility is provided for girl students in special batch.
- Women cell has arranged Health check up camp for college girls in collaboration with 'Divine Fitness Nutrition Centre', Akola (6<sup>th</sup> Jan. 2017) in which a modern apparatus 'Karada Scan' was used. 'Karada Scan' is a weighing machine which measures various parameters like Body Fat percent, Body age, Body Mass Index (BMI), Basal Metabolic Rate (BMR), Visceral Fat (VF), Trunk Fat (TSF) and Muscle Mass (MM) etc. Girls were made aware about their physical conditions, whether they are malnourished, normal or overweight. Personal counselling was done for their normal and good health. Information about various side effects and diseases caused due to malnutrition and various obesity grades were explained by giving personal wellness evolution charts.
- A special programme 'Healthy Women makes healthy society' was organized by women cell of college. Resource person Dr. Dipali Shukla (A Gynaecologist) gave a power point presentation to explain various health issues in women. Dr. Shilpa Kulkarni (A Embryologist) explained how healthy and fit women being a mother, wife, sister or daughter matters for a healthy and fitter home, which leads to a fitter society.

### **Evidence of success:**

- Near about all girl students' attempted physical fitness and medical checkup.
- Maximum girl students participated in various sports activities and brought laurel for college by winning colour coats (A symbol of appreciation and achievements) at University, State and National levels.
- Health consciousness is developed among female students.

### **Recourses Required:**

- Experts for medical checkup and physical efficiency tests.
- Proper coaching about various sports activities. Mr. Rajesh Chandrawanshi (DPE) is always ready to provide it.
- Organisation of health check up and nutrition guidance by women cell.

**Problems encountered:** No