

S. P. MANDALI'S  
**RAMNARAIN RUIA AUTONOMOUS COLLEGE**  
MATUNGA, MUMBAI- 400 019

DBT BUILDER Program by the Department of Biotechnology, Govt. of India - 2021  
Grant from RUSA- Component 8: Challenge levelfunding for enhancing Quality and Excellence - 2018

'Star College Status' by DBT, Govt. of India

'College of Excellence' Status by University Grants Commission

Re-accredited (4<sup>th</sup> Cycle 2017) with 'A+' grade by NAAC (3.70 CGPA)

Conferment of Autonomous Status - 2017

Star College Status' by DBT, Govt. of India – 2016

DDU KAUSHAL Kendra' by UGC, Govt. of India – 2015

College of Excellence' by UGC, Govt. of India – 2014

**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF _____ Commerce _____</b>           |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. Kushagra Goel  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | Monday, 13 <sup>th</sup> December 2021   |
| Duration of the Audit                               | : | 1.5 Hours  |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

**1. Curricular Aspects:**

The curriculum is good and students are satisfied with the syllabus and find it challenging. Infact, a new certificate course on "Introduction to Financial Accounting" was introduced in the year 2017 to give exposure to students towards the field of Accounts.

**2. Teaching-learning and Evaluation:**

Students are taught using audio visual tools, Google classroom or Teams, cases, presentations, videos, project work, research, etc.

Class tests and assignments are given to evaluate the knowledge of students as a part of Internal Assessments and for end term assessment, end term exam is conducted.

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Extra lectures are conducted for slow learners and advance learners participate actively in inter college events.

**3. Research and Extension:**

Students have participated in Research paper conferences.

Webinars have been conducted to enhance the knowledge of students.

2 students have also registered themselves for Ph.D.

**4. Infrastructure and Learning Resources:**

Department room, Wi-Fi, Teams and Google classroom, Projectors, Desktops, Printers, etc are there which are used as learning resources.

**5. Student Progression/ Achievements:**

Students are working in big companies within India and Outside.

2 students have already enrolled themselves for Ph.D. and quite a few are preparing for entrance exams for MBA, Civil services, Banks, etc

**6. Suggestions:**

More guest lectures and research conferences can be arranged.

Training program on soft skills and excel can be introduced for students to make them industry ready

Name of the Auditor: **Dr. Kushagra Goel**

15-12-21   
Signature and Date

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENTS OF __History, Political Science, Philosophy &amp; Travel and Tourism2_____</b> |   |  |
|---|---|--|
| Name of the Auditor   | : | Prof. Suchandra Ghosh  |
| Academic Year for which Academic Audit is Conducted   | : | 2020-21  |
| Day and Date of Audit   | : | Monday, 13 <sup>th</sup> December, 2021  |
| Duration of the Audit   | : | 3pm to 5.30 pm   |
| Proceedings of the Academic Audit   | : | <p>The process of the Academic Audit was systematically planned and carried out online:</p> <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects: Each of the four departments presented their curricula which to my mind is well thought of in concurrence with recent trends. There is perfect balance of traditional themes and new topics. But there are always avenues to improve which entails regular revision of syllabi.
  
2. Teaching-learning and Evaluation: I found considerable energy among the faculty which is a blend of senior and young members. This allows the departments grow as wisdom is added to desire to take fresh challenges. Methods of teaching using analytical tools, group discussions etc. are followed. Traditional chalk and talk method prevail but for pandemic it was not possible. Evaluation follows the method

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devised by UGC. So an outcome based syllabi has been prepared. The system of mentoring is highly appreciated.

3. Research and Extension: In spite of the Pandemic situation, I found the faculty to be pretty active in research. They have published in journals and edited volumes. I was particularly impressed by the outreach programmes, the collaboration with other organizations and agencies. Working with The Asiatic Society of Mumbai, Maritime society and other prestigious organizations would help the students in widening their vision.
  
4. Infrastructure and Learning Resources: Infrastructure for teaching as I understood is pretty good. The college is well equipped with ICT teaching aids and smart class rooms perhaps. Teachers are quite adept in handling e resources and familiar with Google classroom teaching.
  
5. Student Progression/ Achievements: Students have been very active and they adapted the online teaching/learning mode well. They acted as interns for many organizations from their home. Students of the Philosophy department made interesting videos. Participation of students from History in heritage walks and similar programmes for awareness of our heritage is noteworthy. I found that each department takes lot of effort in augmenting the skills of the students and the faculty works closely with them. Their results have also improved over a period of time. Mock Parliament, MUN and other activities by the Political Science department are noteworthy. Travel and Tourism is a department with lot of prospects for students'

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placements. This is an emerging industry in India and the students trained here can go a long way. I learnt that in general students from all the departments are getting placements.

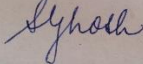
6. Suggestions: My two suggestions would be one to the faculty, to publish their research more in journals published by Sage or Taylor and Francis as these journals have wider circulation and their research would gain better visibility and second to increase inter departmental collaboration. These four departments have enough areas where they can work together. This also imbues an element of interdisciplinary teaching and learning.

So along with collaboration of outside agency/organization they can think of projects with inter departmental collaboration.

My overall experience was very pleasant and this old college of repute is a model to many such institutions.

I congratulate each one of you who are taking the flag of this college ahead.

Name of the Auditor: Suchandra Ghosh



सुचंद्रा घोष/SUCHANDRA GHOSH  
प्रोफेसर/Professor  
इतिहास विभाग/Department of History  
हैदराबाद विश्वविद्यालय /University of Hyderabad  
हैदराबाद/Hyderabad-500 046.

Signature and Date  
15/12/2021

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF ECONOMICS</b>                      |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Prof. Medha Tapiawala  |
| Academic Year for which Academic Audit is Conducted | : | 2021-22  |
| Day and Date of Audit                               | : | 15.12.21   |
| Duration of the Audit                               | : | 50 min   |
| Proceedings of the Academic Audit                   | : | <p>The process of the Academic Audit was systematically planned and carried out online:</p> <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty am submitting my observations as under:

1. Curricular Aspects:

- a. Combination of subjects offered at first and second year for BA and BSc- like Mathematics economics, statistics economics is appreciated
- b. The subjects offered at sem V and VI take care of development of skills in various branches like urban economics, financial economics, international economics, corporate finance etc.
- c. Curriculum is well articulated by keeping in mind the need of an hour. Subjects like Econometrics and Behavioural Economics are needed to be learnt at degree level for basic knowledge along with empirical techniques, are included in sem V and VI respectively.
- d. Curriculum is abetted for creatively employing the insights gained to develop and disseminate and construct of newer economic ideas and policies.
- e. Curriculum includes quantitative and qualitative skills to analyse and forecast the behaviour of certain economic variables.

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2. Teaching-learning and Evaluation:

- a. Department used virtual mode for lectures on google meet and other platforms to fulfil the requirement of teaching even during lockdown period. Due to the unprecedented situation of the year 2020-21, teaching learning was adjusted to the new normal of online mode.
- b. Due to online learning, students became acquainted with technology along with the knowing core subject's areas in more 'applied' way.
- c. Activities like Students' Group Presentations & Seminars organised by department, are useful for team building and also help to understand applications of theories. It makes learning process more participative and hence interesting.
- d. One of the good practices of the department is Remedial teaching and mentoring students.

3. Research and Extension

- a. The department conducts programs like Elixir on the line of edutainment which inculcates interest and liking for research amongst the students
- b. Department also publishes an annual magazine Homoiconicus where students can extant their ideas
- c. A student in department is selected for Research Internship opportunity at Wildlife Conservation Fund.
- d. The presentation revealed involvement of Teachers as resource persons in the activities conducted by other colleges and institutions in Mumbai are useful for academic growth of teachers along with improving quality of their teaching.
- e. Survey on 'floods in Maharashtra' and "what young mind think' with active students participation is valued for moulding student's mind into empirical thinking.

4 Infrastructure and Learning Resources:

- a. Department is having a separate space for teachers with basic ICT facility.
- b. Department has good collection of reference books and periodicals in the college library.
- c. Book- bank facility is available for the economically disadvantaged students.
- d. Classrooms have capacity to be converted as smart classrooms.

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5 Student Progression/ Achievements:

- a. Sem V and VI results are impressive with nearing 100%
- b. 30% of students who have completed BA degrees have opted for higher education like post graduate diploma program in management /data analysis/ economics and also for post graduate degree. Few of them are also opted for appearing public commission exams.
- c. Dept. has motivated and cherished participation of students and winning prizes in new tech competition like hackathon organised with international reach.
- d. Students attendance ranged between 62% to 78%

6 Suggestions:

- a. Effectiveness of Remedial teaching and mentoring can be documented for analysing the transformation in the students' performances.
- b. Economics, being a subject in social science, conducting interdisciplinary and multidisciplinary activities will help to have holistic development in thinking of students.
- c. It's very important to inculcate interest to carry research from students at this young age. Hence projects or assignment given to the students can be converted in concrete research papers, which students can publish under the guidance of faculties.
- d. Department can incorporate students' participation in teachers' research projects.

Prof Medha Tapiawala



21.12.21



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### REPORT OF ACADEMIC AUDIT (2020-21)

| DEPARTMENTS OF __History, _____                     |   |
|---|---|
| Name of the Auditor                                 | : Prof. Suchandra Ghosh   |
| Academic Year for which Academic Audit is Conducted | : 2020-21   |
| Day and Date of Audit                               | : Monday, 13 <sup>th</sup> December, 2021   |
| Duration of the Audit                               | : 3pm to 5.30 pm  |
| Proceedings of the Academic Audit                   | :<br>The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects: The department presented their curricula which to my mind is well thought of in concurrence with recent trends. There is perfect balance of traditional themes and new topics. But there are always avenues to improve which entails regular revision of syllabi. I think it will be good to divide into Ancient, Medieval and Modern periods for the sake of understanding the changes and continuity though we often try to go beyond periodization.
2. Teaching-learning and Evaluation: I found considerable energy among the faculty which is a blend of senior and young members. This allows the departments grow as wisdom is added to desire to take fresh challenges. Methods of teaching using analytical tools, group discussions etc. are followed. Traditional chalk and talk method prevail but for pandemic it was not possible. Evaluation follows the method devised by UGC. So an outcome based syllabi has been prepared. The system of mentoring is highly appreciated.

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3. **Research and Extension:** In spite of the Pandemic situation, I found the faculty to be pretty active in research. They have published in journals and edited volumes. I was particularly impressed by the outreach programmes, the collaboration with other organizations and agencies like the Asiatic Society of Mumbai, Maritime society, the Chhatrapati Shivaji Maharaj Vastu Sangrahalaya and other prestigious organizations. Working with these organizations would help the students in widening their vision.
4. **Infrastructure and Learning Resources:** Infrastructure for teaching as I understood is pretty good. The college is well equipped with ICT teaching aids and smart class rooms perhaps. Teachers are quite adept in handling e resources and familiar with Google classroom teaching.
5. **Student Progression/ Achievements:** Students have been very active and they adapted the online teaching/learning mode well. They acted as interns for many organizations from their home. Participation of students from History in heritage walks and similar programmes for awareness of our heritage is noteworthy. I found that each department takes lot of effort in augmenting the skills of the students and the faculty works closely with them. Their results have also improved over a period of time. I learnt that in general students from all the departments are getting placements.
6. **Suggestions:** My two suggestions would be one to the faculty, to publish their research more in journals published by Sage or Taylor and Francis as these journals have wider circulation and their research would gain better visibility and second to increase inter departmental collaboration. These four departments have enough areas where they can work together. This also imbues an element of interdisciplinary teaching and learning. So along with collaboration of outside agency/organization they can think of projects with inter departmental collaboration.

My overall experience was very pleasant and this old college of repute is a model to many such institutions.

I congratulate each one of you who are taking the flag of this college ahead.

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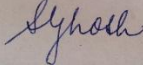
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Name of the Auditor: Suchandra Ghosh



सुचंद्रा घोष/SUCHANDRA GHOSH  
प्रोफेसर/Professor  
इतिहास विभाग/Department of History  
हैदराबाद विश्वविद्यालय /University of Hyderabad  
हैदराबाद/Hyderabad-500 046.

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b><u>DEPARTMENT OF Marathi</u></b>                 |   |  |
|---|---|--|
| Name of the Auditor                                 | : | ANAND VYANKATESH KATIKAR   |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | 15 <sup>th</sup> December 2021   |
| Duration of the Audit                               | : | 3.00 p.m – 4.00 p.m.   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty. I am submitting my observations as under:

1. Curricular Aspects:
  - 1) All the curricular responsibilities are clearly completed.
  - 2) Faculties are regularly involved in remedial teaching & counselling of the students, is a good sign of best practice of the dept.
  - 3) No activity for advance learners is observed.
  - 4) Please design a good & separate curriculum to fulfil the local and global needs.
  
2. Teaching-learning and Evaluation:
  - 1) Projects for the internal exams is a good practice. But what measures are taken for the duplication of the projects?
  - 2) Students' participation in various programmes leads to their evaluation, is a good sign of active involvement of the students in the academics.
  - 3) External moderation of the ESE is the best way towards proper evaluation.
  - 4) Combination of the 2 level questions in MCQ exam is praiseworthy attempt towards quality enhancement by the college.

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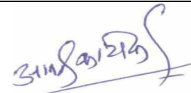
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- 5) Discussion on Drama or Films enhance the analytical ability of the students' after learning the theory part of the curriculum is the classic example of the application of the knowledge gained.
3. Research and Extension:
- 1) As the dept. has no PG section, the research part is quiet ignored from the students' point of view. But the research publications by all the faculties is satisfactory.
  - 2) The faculty members of the dept. are actively involved in extension activities.
4. Infrastructure and Learning Resources:
- 1) Dept. Library of 300 Books & cassettes etc. is ok. Please keep the data of the usage & please throw some light on the process of the dept. library.
5. Student Progression/ Achievements:
- UG to PG in Marathi :
- UG to PG in other subjects :
- UG to Co/Extra Curricular activities :
- UG to jobs :
- Please keep a data of last 5 years, as per the above norms.
6. Suggestions:
- 1) Presentation was enthusiastic.
  - 2) Teachers' active role in all the aspects is admirable.
  - 3) Pl. think on the sharing of resources and ideas of the other language departments.
  - 4) Pl. make a planning to deal with the advance learners
  - 5) Please design a good & separate curriculum to fulfil the local and global needs.
  - 6) Pl. tie up with all the language departments in the college to expand the perspective of the students.

Name of the Auditor: ANAND VYANKATESH KATIKAR



**20.12.2021**

Signature and Date

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b><u>DEPARTMENT OF Sanskrit</u></b>                |   |  |
|---|---|--|
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| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | 15 <sup>th</sup> December 2021   |
| Duration of the Audit                               | : | 3.35 p.m – 4.10 p.m.   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:
  - a) All the faculties are doing well in their curricular responsibilities.
  - b) Faculties are enthusiastic. Planning of 2 certificate courses with the good execution is the good sign of the dept. development.
  - c) Special activity for advance learners as well as remedial type of course is appreciable.
  
2. Teaching-learning and Evaluation:
  - a) Projects for the internal exams is a good practice. But what measures are taken for the duplication of the projects?
  - b) External moderation of the ESE is the best way towards proper evaluation.
  - c) Combination of the 2 level questions in MCQ exam is praiseworthy attempt towards quality enhancement by the college.

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Conferment of Autonomous Status - 2017

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3. Research and Extension:

- a) The research publications by all the faculties is satisfactory.
- b) Research articles by the students is the path which you never thought of.

4. Infrastructure and Learning Resources:

No more emphasis was observed on the said topic.

5. Student Progression/ Achievements:

UG to PG in Sanskrit :

UG to PG in other subjects :

UG to Co/Extra Curricular activities :

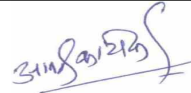
UG to jobs :

Please keep a data of last 5 years, as per the above norms.

6. Suggestions:

- a) Presentation was done wholeheartedly.
- b) Teachers' active involvement in designing the new courses is commendable
- c) Pl. think on the sharing of resources and ideas of the other language departments and plan a course by involving all the language departments.
- d) Pl. make a proper advertisement of the courses.
- e) Try to start the online courses like certificate course in Linguistics.

Name of the Auditor: ANAND VYANKATESH KATIKAR



20.12.2021

Signature and Date

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b><u>DEPARTMENT OF Hindi</u></b>                   |   |   |
|---|---|---|
| Name of the Auditor                                 | : | ANAND VYANKATESH KATIKAR  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21   |
| Day and Date of Audit                               | : | 15 <sup>th</sup> December 2021  |
| Duration of the Audit                               | : | 4.10 p.m – 4.40 p.m.  |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:
  - a) All the faculties are sharing their curricular responsibilities.
  - b) The curriculum must
  
2. Teaching-learning and Evaluation:
  - a) Projects for the internal exams is a good practice. But what measures are taken for the duplication of the projects?
  - b) External moderation of the ESE is the best way towards proper evaluation.
  - c) Combination of the 2 level questions in MCQ exam is praiseworthy attempt towards quality enhancement by the college.
  
3. Research and Extension:
  - a) The research publications by all the faculties is satisfactory.
  - b) Dept. students are actively participating in the co-curricular competitions.
  - c) Efforts should be made to is develop the research attitude in the students.



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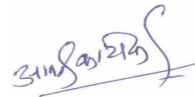
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4. Infrastructure and Learning Resources:  
No more emphasis was observed on the said topic.
5. Student Progression/ Achievements:  
UG to PG in Sanskrit :  
UG to PG in other subjects :  
UG to Co/Extra Curricular activities :  
UG to jobs :  
Please keep a data of last 5 years, as per the above norms.
6. Suggestions:  
a) Pl. think on the sharing of resources and ideas of the other language departments and plan a course by involving all the language departments.

Name of the Auditor: ANAND VYANKATESH KATIKAR



**20.12.2021**

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF _English _____</b>                 |   |  |
|---|---|--|
| Name of the Auditor                                 |   | Dr Shobana P Mathews   |
| Academic Year for which Academic Audit is Conducted | : | 2020-2021  |
| Day and Date of Audit                               | : | Wednesday , 15 December ,2021  |
| Duration of the Audit                               | : | 3PM-5PM  |
| Proceedings of the Academic Audit                   | : | <p>The process of the Academic Audit was systematically planned and carried out online:</p> <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

More contemporary and relevant courses on emerging thrust areas such as Digital Humanities, Legal humanities , New literatures and research based courses be introduced .Multi disciplinary innate within Literary Studies to be further explored . Perhaps a paper in Mumbai Studies be introduced under the aegis of Urban/ City Studies.  
 Engage more with Neighbourhood projects .

2. Teaching-learning and Evaluation:

Project based and Problem-solving approaches to be used.

Innovative testing methods and rubrics for assessment to be provided

Translation studies might be a possibility to have a multi lingual, multi cultural approach . This could be undertaken in collaboration with Language depts .

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Newletters and blogs and social media can provide a good area of study of changing narrative modes for new media .

2. Research and Extension:

Service Learning to be explored and undertaken .Eg Language classes for the neighbourhood – maids , transport workers etc .

Content can be created for various media.

Adopting of a neighbourhood and creating social awareness and employable skill development for the inhabitants to alleviate poverty: spoken English, soft skills etc .

Facilitate workshops on mental health, gender equity and ecological sensitivity .

3. Infrastructure and Learning Resources:

Use of indigenous texts and visual texts .

Audio texts and oral histories to be documented or used as assessment modes( podcasts can be created around cultural artefacts and identity )

Film, Music libraries/

Learning Management Systems to be explored

4. Student Progression/ Achievements:

Assessed Internship to be undertaken for a month (30x8hrs/day =240 hrs) in summer where students interact with the industry. Internship culminates in a 25- page report and a viva . marks could be awarded based on confidential feedback form employer and internal mentor's interaction and guidance during the internship period( email records, journal maintenance by student.

Literary fest could be conducted by students.

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Also a competition for the best paper on Literary Studies be instituted : Best Critic or Best Reviewer / Young Author Award

Placement cell for Literature Students. Industry interaction strengthened through Internships as mentioned above.

5. Suggestions:

More contemporary modes of texts to be introduced

Staff research and knowledge sharing forum could enhance and update teacher preparedness.

More multi-disciplinarity to be engaged with at all levels .

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Name of the Auditor: Shobana Mathews | 24/12 /21<br>Signature and Date |
|--------------------------------------|---------------------------------|

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF _____</b>                          |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Shobana P Mathews  |
| Academic Year for which Academic Audit is Conducted | : | 2020-2021  |
| Day and Date of Audit                               | : | Wednesday 15 December , 2021   |
| Duration of the Audit                               | : |  |
| Proceedings of the Academic Audit                   | : | <p>The process of the Academic Audit was systematically planned and carried out online:</p> <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

Since this is a BA in French and extends beyond the language learning aspect , it may be useful to consider courses in French Cultural Studies from Art history to Cuisine and fashion as acultural artefacts . This is being currently carried out as projects for assessment as I understand.

Courses in Translation Studies could lead to projects being undertaken.

French Cinema and Music too could be considered as texts .

Comparative Literatures could be explored

2. Teaching-learning and Evaluation:

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Experiential learning methods can be used .

Podcasts to be considered.

3. Research and Extension:

Projects could be taken up in francophone areas such as Pondicherry and Mahe.

Research tasks using methods of Visual Ethnography could be used to archive stories of these communities.

Post-colonial studies in a French context could be undertaken

4. Infrastructure and Learning Resources:

Audio Visual labs could be used

Digital resources to be utilised

With the aid of the Dept of Media Studies , short films , documentaries can be made

5. Student Progression/ Achievements:

Blogs can be good databases

Career counselling within the domain .

Skill based components of courses to be introduced .

Value added Certificate Courses can be considered

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Fest/Conferences to be considered .Online oo and in collaboration .

6. Suggestions:

Keep up the good work.

Better documentation and articulation would help, Course plans to be made available.

More formalised inter-disciplinary methods would help in partnership with other depts of the college .

|                      |                    |
|----------------------|--------------------|
| Name of the Auditor: | Signature and Date |
|----------------------|--------------------|

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| Day and Date of Audit                               | : |  |
| Duration of the Audit                               | : |  |
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After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

2. Teaching-learning and Evaluation:



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3. Research and Extension:

4. Infrastructure and Learning Resources:

5. Student Progression/ Achievements:

6. Suggestions:

|                      |                    |
|----------------------|--------------------|
| Name of the Auditor: | Signature and Date |
|----------------------|--------------------|

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| DEPARTMENT OF _____                                 |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Shobana Mathews  |
| Academic Year for which Academic Audit is Conducted | : | 2020-2021  |
| Day and Date of Audit                               | : | Wednesday, 15 <sup>th</sup> December, 2021   |
| Duration of the Audit                               | : | 2PM -5PM   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

Well defined and level appropriate .  
Gradation is present

2. Teaching-learning and Evaluation:

Latest developments are addressed as faculty are practising clinical psychologists

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3. Research and Extension:

PSAs for mental health awareness and drafting of policy papers can be undertaken in collaboration with Dept of Media Studies .

Campaigns can be conducted in the neighbourhood .

4. Infrastructure and Learning Resources:

Adequate

5. Student Progression/ Achievements:

Blogs can be maintained

6. Suggestions:

Offer Masters programs .

Develop inhouse training modules .

Produce booklets and short films as awareness campaigns.

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|   |                                       |
|---|---------------------------------------|
| <b>Name of the Auditor: Shobana Mathews</b> | <b>Signature and Date</b><br>24/12/21 |
|---|---------------------------------------|

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENTS OF __Philosophy ____</b>             |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Prof. Suchandra Ghosh  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | Monday, 13 <sup>th</sup> December, 2021  |
| Duration of the Audit                               | : | 3pm to 5.30 pm   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. **Curricular Aspects:** The department presented their curricula which to my mind is well thought of in concurrence with recent trends. The Head of the Department particularly harped on the new approaches of studying philosophy and certificate courses are offered. Ethics form an important aspect of their syllabus. Ethics related to heritage conservation could also be introduced. There is perfect balance of traditional themes and new topics. But there are always avenues to improve which entails regular revision of syllabi.
  
2. **Teaching-learning and Evaluation:** I found considerable energy among the faculty which is a blend of senior and young members. This allows the departments grow as wisdom is added to desire to take fresh challenges. Methods of teaching using analytical tools, group discussions etc. are followed. Traditional chalk and talk method prevail but for pandemic it was not possible. Students were encouraged to make educative videos which were remarkable. Philosophy for children is being

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thought of. Evaluation follows the method devised by UGC. So an outcome based syllabi has been prepared. The system of mentoring is highly appreciated.

3. Research and Extension: In spite of the Pandemic situation, I found the faculty to be pretty active in research. They have published in journals and edited volumes. I was particularly impressed by the outreach programme with prestigious organizations. Working with these organizations would help the students in widening their vision. The courses with organizations abroad which the department is organizing would give visibility to the department. It is indeed a pro-active department.
4. Infrastructure and Learning Resources: Infrastructure for teaching as I understood is pretty good. The college is well equipped with ICT teaching aids and smart class rooms perhaps. Teachers are quite adept in handling e resources and familiar with Google classroom teaching.
5. Student Progression/ Achievements: Students have been very active and they adapted the online teaching/learning mode well. They acted as interns for many organizations from their home. Students of the Philosophy department made interesting videos. I found that each department takes lot of effort in augmenting the skills of the students and the faculty works closely with them. I learnt that in general students of the department are getting good placements.
6. Suggestions: My two suggestions would be one to the faculty, to publish their research more in journals published by Sage or Taylor and Francis or any other reputed journal as these journals have wider circulation and their research would gain better visibility and second to increase inter departmental collaboration. These four departments have enough areas where they can work together. This also imbues an element of interdisciplinary teaching and learning. So along with collaboration of outside agency/organization they can think of projects with inter departmental collaboration.

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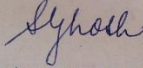
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My overall experience was very pleasant and this old college of repute is a model to many such institutions.

I congratulate each one of you who are taking the flag of this college ahead.

Name of the Auditor: Suchandra Ghosh



सुचंद्रा घोष/SUCHANDRA GHOSH  
प्रोफेसर/Professor  
इतिहास विभाग/Department of History  
हैदराबाद विश्वविद्यालय /University of Hyderabad  
हैदराबाद/Hyderabad-500 046.

Signature and Date  
15/12/2021

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'Star College Status' by DBT, Govt. of India

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Re-accredited (4<sup>th</sup> Cycle 2017) with 'A+' grade by NAAC (3.70 CGPA)

Conferment of Autonomous Status - 2017

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DDU KAUSHAL Kendra' by UGC, Govt. of India – 2015

College of Excellence' by UGC, Govt. of India – 2014

### REPORT OF ACADEMIC AUDIT (2020-21)

| DEPARTMENTS OF __Political Science _____            |   |  |  |
|---|---|--|--|
| Name of the Auditor                                 | : |  | Prof. Suchandra Ghosh  |
| Academic Year for which Academic Audit is Conducted | : |  | 2020-21  |
| Day and Date of Audit                               | : |  | Monday, 13 <sup>th</sup> December, 2021  |
| Duration of the Audit                               | : |  | 3pm to 5.30 pm   |
| Proceedings of the Academic Audit                   | : |  | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects: The department presented their curricula which to my mind is well thought of in concurrence with recent trends. International Relations, Security are part of the syllabi. The faculty could think of introducing Maritime Security as well since it is located in a port city. Students can then go to Navy for internship. There are always avenues to improve which entails regular revision of syllabi.
2. Teaching-learning and Evaluation: I found considerable energy among the faculty which is a blend of senior and young members. This allows the departments grow as wisdom is added to desire to take fresh challenges. Methods of teaching using analytical tools, group discussions etc. are followed. Traditional chalk and talk method prevail but for pandemic it was not possible. Evaluation follows the method devised by UGC. So an outcome based syllabi has been prepared. Special care for interaction with students who are more comfortable with Marathi language is taken. The system of mentoring is highly appreciated.



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3. **Research and Extension:** In spite of the Pandemic situation, I found the faculty to be pretty active in research. They have published in journals and edited volumes. The outreach programmes are worthy of mentioning.
  
4. **Infrastructure and Learning Resources:** Infrastructure for teaching as I understood is pretty good. The college is well equipped with ICT teaching aids and smart class rooms perhaps. Teachers are quite adept in handling e resources and familiar with Google classroom teaching.
  
5. **Student Progression/ Achievements:** Students have been very active and they adapted the online teaching/learning mode well. They acted as interns for many organizations from their home. I found that each department takes lot of effort in augmenting the skills of the students and the faculty works closely with them. Their results have also improved over a period of time. Mock Parliament, MUN and other activities by the Political Science department are noteworthy. They also get placements.
  
6. **Suggestions:** My two suggestions would be one to the faculty, to publish their research more in journals published by Sage or Taylor and Francis or similar reputed journal publishers as these journals have wider circulation and their research would gain better visibility and second to increase inter departmental collaboration. These four departments have enough areas where they can work together. This also imbues an element of interdisciplinary teaching and learning. So along with collaboration of outside agency/organization they can think of projects with inter departmental collaboration.

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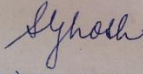
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My overall experience was very pleasant and this old college of repute is a model to many such institutions.

I congratulate each one of you who are taking the flag of this college ahead.

Name of the Auditor: Suchandra Ghosh



सुचंद्रा घोष/SUCHANDRA GHOSH  
प्रोफेसर/Professor  
इतिहास विभाग/Department of History  
हैदराबाद विश्वविद्यालय /University of Hyderabad  
हैदराबाद/Hyderabad-500 046.

Signature and Date  
15/12/2021

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENTS OF __Travel and Tourism _____</b> |   |   |   |
|--|---|---|---|
|  | Name of the Auditor                                 | : | Prof. Suchandra Ghosh   |
|  | Academic Year for which Academic Audit is Conducted | : | 2020-21   |
|  | Day and Date of Audit                               | : | Monday, 13 <sup>th</sup> December, 2021   |
|  | Duration of the Audit                               | : | 3pm to 5.30 pm  |
|  | Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects: It is a new department and the subject is new. The young faculty have prepared a well thought out syllabi which enables the students to develop various skills need for such a subject. But there are always avenues to improve which entails regular revision of syllabi. There should be a considerable amount of historical themes in the syllabus and with tourism, educating the tourists regarding conservation of heritage should form an important aspect.
  
2. Teaching-learning and Evaluation: I found considerable energy among the faculty. Methods of teaching using analytical tools, group discussions etc. are followed. Traditional chalk and talk method prevail but for pandemic it was not possible. Evaluation follows the method devised by UGC. So an outcome based syllabi has been prepared. The system of mentoring is highly appreciated. There should be

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3. Research and Extension: In spite of the Pandemic situation, I found the faculty to be pretty active in research. I was particularly impressed by the outreach programmes. In the coming years there will be more scope to work with major tourism industries.
  
4. Infrastructure and Learning Resources: Infrastructure for teaching as I understood is pretty good. The college is well equipped with ICT teaching aids and smart class rooms perhaps. Teachers are quite adept in handling e resources and familiar with Google classroom teaching.
  
5. Student Progression/ Achievements: Students have been very active and they adapted the online teaching/learning mode well. They acted as interns for many organizations from their home. I found that each department takes lot of effort in augmenting the skills of the students and the faculty works closely with them. Their results have also improved over a period of time. Travel and Tourism is a department with lot of prospects for students' placements. This is an emerging industry in India and the students trained here can go a long way. I learnt that in general students from all the departments are getting placements.
  
6. Suggestions: My two suggestions would be one to the faculty, to publish their research more in journals published by Sage or Taylor and Francis as these journals have wider circulation and their research would gain better visibility and second to increase inter departmental collaboration. These four departments have enough areas where they can work together. This also imbues an element of interdisciplinary teaching and learning. So along with collaboration of outside agency/organization they can think of projects with inter departmental collaboration.

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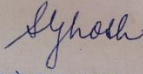
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My overall experience was very pleasant and this old college of repute is a model to many such institutions.

I congratulate each one of you who are taking the flag of this college ahead.

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF BOTANY</b>                         |   |   |
|---|---|---|
| Name of the Auditor                                 | : | DR. ALPHONSA VIJAYA JOSEPH  |
| Academic Year for which Academic Audit is Conducted | : | 2020-‘21  |
| Day and Date of Audit                               | : | Wednesday, 15 <sup>th</sup> December, 2021  |
| Duration of the Audit                               | : | 90 minutes (Online)   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

**1. Curricular Aspects:**

- ✓ The programmes offered are B. Sc. Botany (AC-Horticulture and Gardening), M.Sc. (By Papers: Molecular Biology, Cytogenetics and Plant Biotechnology), M. Sc. (By Research) and Ph.D
- ✓ Industry linked Certificate course on ‘Techno-commercial aspects of urban farming’ is commendable
- ✓ Syllabus revision done after analysis of course attainment scores and feedback from students
- ✓ Academic flexibility is utilized in revising the syllabi of programmes
- ✓ Outcome of Feedback analysis: Inclusion of Internship in the PG curriculum, NET/SET coaching and Skill based and applied aspects of Botany included in the FYBSc syllabi
- ✓ Outcome Based Syllabus has been designed for the UG and PG programmes

**2. Teaching, Learning and Evaluation:**

- ✓ Teachers are using ICT enabled teaching resources
- ✓ Online classes were conducted through Google Clasroom and Zoom platforms
- ✓ The Department has competent and experienced faculty including 4 research guides

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- ✓ Teaching methods included lectures, creation of video content, live demonstration classes
- ✓ E-learning materials were uploaded for easy access by students
- ✓ Mentoring is done in a 1 mentor: 20 mentee proportion
- ✓ Academic and Personal mentoring is facilitated
- ✓ Remedial learners and Advanced learners were categorized and appropriate teaching methods were adopted: Remedial learners in the TYBSc were given remedial sessions, discussions and personal attention. Advanced learners were given specific assignments and were encouraged to participate in webinars and training programmes
- ✓ The question papers were prepared based on the blue print that incorporates Bloom's taxonomy criteria including low, medium and high level questions.
- ✓ Evaluation methods are well defined for both internal and external assessment
- ✓ The rubrics for the internal assessment is specific and defined
- ✓ The mapping of the COs, POs and PSOs have been done for each course of the UG and PG programmes
- ✓ The percentage of pass and the grades obtained in results is indicative of the efforts taken by the faculty for the teaching learning process
- ✓ The attainment percentage is calculated for all courses and appropriate corrective measures are adopted wherever necessary

**3. Research and Extension:**

- ✓ The department has a full-fledged research centre with 4 research guides and 10 Ph. D. students
- ✓ The areas of specialization are Plant Biotechnology, Nanobiotechnology, Mycology, Plant Physiology, Phytoremediation, Taxonomy, Phycology and Phytochemistry
- ✓ Fund inflow is facilitated through consultancy services
- ✓ 4 paper publications in peer-reviewed journals
- ✓ Faculty have attended webinars and workshops for updating subject knowledge and technological skills
- ✓ Faculty have served as resource persons in various programmes
- ✓ Extension activities have been carried out by students by organizing tree naming drives and tree protection initiatives

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**4. Infrastructure and Learning Resources:**

- ✓ Full-fledged labs with appropriate equipment for B.Sc. and M.Sc. programmes
- ✓ Research lab with sophisticated and state of the art equipment for advanced research; PTC Lab for research
- ✓ Well maintained Department Library, Museum and Herbarium

**5. Student Progression/ Achievements:**

- ✓ Students are given training in capacity building and career orientation programmes
- ✓ A high percentage of students have qualified and progressed to higher studies
- ✓ The department association has organized a number of programmes for overall development of the students
- ✓ Involvement of alumni in the teaching process is a commendable initiative.

**6. Suggestions:**

**1. Curricular Aspects:**

- While revising the syllabus, courses with employability, value education, skill components, gender sensitization, environment awareness etc. can be included and the CO specified so that it can be included specifically in the AQAR.
- Programme/ Course feedback can be taken from the parents, employers and alumni
- Interdisciplinary certificate courses and value added courses can be designed

**2. Teaching, Learning and Evaluation**

- A specific documented mechanism can be adopted to demarcate the remedial and advanced learners.
- Inclusion of blended learning will spare time for offering personalized mentoring and counselling to students.
- Question banks can be prepared for each course
- MOOC courses can be designed in the online mode including the 4 quadrant approach

**3. Research and Extension:**

- Publications to be made in highly impacted/ UGC care-listed journals



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- Projects from funding agencies, both governmental and non-governmental, to be obtained
- Emphasis to be given to field based projects for B. Sc. and M.Sc. programmes
- M.Sc. students can be encouraged to design their projects so that it can be published in peer-reviewed journals
- Collaborative projects can be conducted involving MoUs with collaborating agencies
- Extension and consultancy services to be strengthened


**4. Infrastructure and Learning Resources:**

- The sophisticated research instrumentation facilities can be outsourced to promote fund generation
- Certificate course in Biological Instrumentation techniques can be designed including other allied departments

**5. Student Progression/ Achievements:**

- Identify and segregate final year students into Placement Oriented, Higher Education Oriented, Entrepreneurship Oriented and Others
- Targeted training programmes for addressing each categories' career aspirations in coordination with Career Guidance cell, Placement cell and ED Clubs
- The department can provide scholarship to at least one student, encouraging the PTA and the alumni for their contributions

Name of the Auditor: Dr. Alphonsa Vijaya Joseph

 15-12-2021  
Signature and Date

S. P. MANDALI'S  
**RAMNARAIN RUIA AUTONOMOUS COLLEGE**  
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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF ZOOLGY</b>                         |   |  |
|---|---|--|
| Name of the Auditor                                 | : | DR. ALPHONSA VIJAYA JOSEPH   |
| Academic Year for which Academic Audit is Conducted | : | 2020-'21   |
| Day and Date of Audit                               | : | Wednesday, 15 <sup>th</sup> December, 2021   |
| Duration of the Audit                               | : | 60 minutes (Online)  |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

**1. Curricular Aspects:**

- ✓ The programmes offered are B. Sc. Zoology; AC- Marine Science; M.Sc. (By Papers- Specialization- Oceanography, Animal Physiology), M. Sc. (By Research) and Ph.D
- ✓ Syllabus revision discussions initiated each year in the BOS after analysis of attainment scores and feedback from students; implemented both in the UG and PG syllabi
- ✓ Internships included in the PG curriculum
- ✓ Outcome Based Syllabus has been designed for all programmes

**2. Teaching, Learning and Evaluation:**

- ✓ Teachers are using ICT enabled teaching resources; teaching methods adopted are blended learning, live practical labs, interactive videos, virtual labs, discussions and flipped classroom
- ✓ Videos of practical sessions created in collaboration with Indian Magic Eye and uploaded in YouTube.
- ✓ The Department has competent and experienced faculty including 2 research guides (2 Research guides are retired faculty)
- ✓ Mentoring is done in a 1 mentor: 20-25 mentee proportion

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- ✓ Advanced learners were permitted to do special internships and were encouraged to participate training programmes
- ✓ The question papers were prepared based on the blue print that incorporates Bloom's taxonomy criteria including low, medium and high level questions.
- ✓ Evaluation methods are well defined for both internal and external assessment
- ✓ The rubrics for the internal assessment is specific and defined
- ✓ The mapping of the COs, POs and PSOs have been done for each course of the UG and PG programmes
- ✓ The results indicate high pass percentage and high grades, both at the UG and PG level
- ✓ The course attainment score is calculated for all courses and appropriate corrective measures are adopted wherever necessary
- ✓ Involvement of alumni and industry experts in the teaching process is a commendable initiative.

**3. Research and Extension:**

- ✓ The department has a full-fledged research centre with 2 research guides
- ✓ 2 paper publications in peer-reviewed journals
- ✓ Faculty have attended webinars and workshops for updating subject knowledge and technological skills

**4. Infrastructure and Learning Resources:**

- ✓ Separate and well-equipped labs for B.Sc. and M.Sc. programmes
- ✓ Well maintained Department Library and Museum
- ✓ Animal Testing Laboratory licensed, registered and approved by the Government of India

**5. Student Progression/ Achievements:**

- ✓ Webinars were organized for the students to promote their life skills, entrepreneur skills and leadership skills
- ✓ A high percentage of students have qualified and progressed to higher studies
- ✓ The department association has organized a number of programmes for overall development of the students; the Department festival 'Zoomanji', being a flagship programme

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- ✓ Outreach activities have been carried out by students, creating awareness on the pandemic, cleaning the beaches and fund collection for the under privileged during Diwali

## **6. Suggestions:**

### **1. Curricular Aspects:**

- While revising the syllabus, courses with employability, value education, skill components, gender sensitization, environment awareness etc. can be included and the CO specified so that it can be included specifically in the AQAR.
- Programme/ Course feedback can be taken from the parents, employers and alumni
- Interdisciplinary certificate courses and value added courses are to be designed and conducted

### **2. Teaching, Learning and Evaluation**

- A specific documented mechanism can be adopted to demarcate the remedial and advanced learners.
- Question banks can be prepared for each course
- MOOC courses can be designed in the online mode including the 4 quadrant approach

### **3. Research and Extension:**

- Thrust to be given to research activities
- Number of publications to be increased. Papers to be published in highly impacted/ UGC care-listed journals
- Projects from funding agencies, both governmental and non-governmental, to be obtained
- Emphasis to be given to field based projects for B. Sc. and M.Sc. programmes
- M.Sc. students can be encouraged to design their projects so that it can be published in peer-reviewed journals
- Collaborative projects to be conducted involving MoUs with collaborating agencies
- Extension and paid consultancy services to be strengthened

### **4. Infrastructure and Learning Resources:**

- The sophisticated research instrumentation facilities can be outsourced to promote fund generation: the Animal testing laboratory can be utilized for this initiative

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**5. Student Progression/ Achievements:**

- PG Students can be given additional classes for UGC- CSIR NET, SET and other competitive exams
- Identify and segregate final year students into Placement Oriented, Higher Education Oriented, Entrepreneurship Oriented and Others
- Targeted training programmes for addressing each categories' career aspirations in coordination with Career Guidance cell, Placement cell and ED Clubs
- The department can provide scholarship to at least one student, encouraging the PTA and the alumni for their contributions

Name of the Auditor: Dr. Alphonsa Vijaya Joseph



15-12-2021

Signature and Date

S. P. MANDALI'S  
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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF LIFE SCIENCE</b>                   |   |   |
|---|---|---|
| Name of the Auditor                                 | : | DR. ALPHONSA VIJAYA JOSEPH  |
| Academic Year for which Academic Audit is Conducted | : | 2020-‘21  |
| Day and Date of Audit                               | : | Wednesday, 15 <sup>th</sup> December, 2021  |
| Duration of the Audit                               | : | 90 minutes (Online)   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

**1. Curricular Aspects:**

- ✓ The programmes offered are B. Sc. In Life Science, M.Sc. in Life Science and Ph.D
- ✓ Academic flexibility is utilized in revising the syllabi of programmes
- ✓ Student feedback on curriculum is analysed and appropriate measures are taken while restructuring the syllabus
- ✓ Outcome Based Syllabus has been designed for the UG and PG programmes

**2. Teaching, Learning and Evaluation:**

- ✓ Teachers are using ICT enabled teaching resources
- ✓ Teaching methods adopted are Microteaching, individual and group presentations, participative discussions, video content development, incorporation of games and case study analysis
- ✓ The Department has competent and experienced faculty including 3 research guides
- ✓ Slow learners and Advanced learners were categorized and appropriate teaching methods were adopted: Slow learners are provided with mentoring facilities, remedial sessions, discussions and personal attention. Advanced learners were assigned specific roles in survey projects pertaining to attainment of SDG Goal 3; final year students participated in the Ek Bharat Shrestha Bharat project and also in Environmental Case studies

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Grant from RUSA- Component 8: Challenge level funding for enhancing Quality and Excellence - 2018

'Star College Status' by DBT, Govt. of India

'College of Excellence' Status by University Grants Commission

Re-accredited (4<sup>th</sup> Cycle 2017) with 'A+' grade by NAAC (3.70 CGPA)

Conferment of Autonomous Status - 2017

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- ✓ The question papers were prepared based on the blue print that incorporates Bloom's taxonomy criteria including low, medium and high level questions.
- ✓ Evaluation methods are well defined for both internal and external assessment
- ✓ The rubrics for the internal assessment are well structured with case studies. Content creation, debates and quizzes
- ✓ The mapping of the COs, POs and PSOs have been done for each course of the UG and PG programmes
- ✓ The good academic results of the UG and PG programmes are indicative of the efforts taken by the faculty for the teaching learning process
- ✓ The course attainment percentage is calculated for all courses and appropriate corrective measures are adopted wherever necessary

**3. Research and Extension:**

- ✓ The department has a full-fledged research centre with 3 research guides and 6 Ph. D. students
- ✓ 2 paper publications in UGC CARE listed journals
- ✓ Faculty have attended webinars and workshops for updating subject knowledge and technological and teaching skills

**4. Infrastructure and Learning Resources:**

- ✓ Full-fledged labs with appropriate equipment for B.Sc. and M.Sc. programmes
- ✓ Research lab with sophisticated and state of the art equipment for advanced and applied life science research
- ✓ Well maintained Department Library

**5. Student Progression/ Achievements:**

- ✓ A high percentage of students have qualified in the NET and other competitive exams and progressed for higher studies in nationally reputed institutes.
- ✓ 4 students have completed NPTEL courses online
- ✓ Students were motivated to work for research-oriented projects which have resulted in their presentations being recognized

**6. Suggestions:**

**1. Curricular Aspects:**

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- While revising the syllabus, courses with employability, value education, skill components, gender sensitization, environment awareness etc. can be included and the CO specified so that it can be included specifically in the AQAR.
- Programme/ Course feedback can be taken from the parents, employers and alumni
- Interdisciplinary certificate courses and value added courses to be designed
- Industry linked certificate programmes to be designed

## 2. Teaching, Learning and Evaluation

- A specific documented mechanism can be adopted to demarcate the remedial and advanced learners.
- Inclusion of blended learning will spare time for offering personalized mentoring and counselling to students.
- Question banks can be prepared for each course
- MOOC courses can be designed in the online mode including the 4 quadrant approach

## 3. Research and Extension:

- Number of paper publications to be increased.
- Projects from funding agencies, both governmental and non-governmental, to be obtained
- Emphasis to be given to field based projects for B. Sc. and M.Sc. programmes
- M.Sc. students can be encouraged to design their projects so that it can be published in peer-reviewed journals
- Collaborative projects can be conducted involving MoUs with collaborating agencies
- Consultancy services resulting in fund inflow to be strengthened
- Extension and Outreach activities to be structured

## 4. Infrastructure and Learning Resources:

- The sophisticated research instrumentation facilities can be outsourced to promote fund generation
- Interdisciplinary Certificate course in Biological Instrumentation techniques can be designed involving other allied departments



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**5. Student Progression/ Achievements:**

- The department can provide scholarship to at least one student, encouraging the PTA and the alumni for their contributions

|   |   |
|---|---|
| Name of the Auditor: Dr. Alphonsa Vijaya Joseph | <br>15-12-2021<br>Signature and Date |
|---|---|

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF MICROBIOLOGY</b>                   |   |   |
|---|---|---|
| Name of the Auditor                                 | : | DR. ALPHONSA VIJAYA JOSEPH  |
| Academic Year for which Academic Audit is Conducted | : | 2020-‘21  |
| Day and Date of Audit                               | : | Thursday, 16 <sup>th</sup> December, 2021   |
| Duration of the Audit                               | : | 90 minutes (Online)   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

**1. Curricular Aspects:**

- ✓ The programmes offered are B. Sc. In Microbiology (AC- Biotechnology), M.Sc. in Microbiology (By Papers), M. Sc.in Microbiology (By Research) and Ph.D
- ✓ Academic flexibility is utilized in revising the syllabi of programmes
- ✓ The feedback on curriculum has been obtained from students and analysed for learning value in terms of knowledge, value and concepts and suggestions put forth have been considered during syllabus revision
- ✓ Outcome Based Syllabus has been designed for all programmes

**2. Teaching, Learning and Evaluation:**

- ✓ Effective use of digital technology and Moodle platform to deliver the course content
- ✓ The theory sessions were effectively delivered by means of interactive presentations, digital whiteboards and slates, demo videos and discussions
- ✓ Demo videos, virtual labs and mock lab experiential learning methods were used for the practical sessions
- ✓ An e-resource of video bank depicting important and relevant topics was created and uploaded to be shared with students

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- ✓ Mentors were assigned for each class groups and mentoring was effectively carried out to cater to the concerns regarding the pandemic situation, guidance for academic support and career prospects
- ✓ The question papers were prepared based on the blue print that incorporates Bloom's taxonomy criteria including low, medium and high level questions
- ✓ Evaluation methods are well defined for both internal and external assessment
- ✓ Innovative evaluation methods have been practiced for internal assessment involving case study analysis, research paper presentation for PG, applicability of knowledge concept
- ✓ The rubrics for the internal assessment for UG and PG programmes are specific and defined
- ✓ The mapping of the COs, POs and PSOs have been done for each course of the UG and PG programmes
- ✓ For the UG programme, the pass percentage is seen to be low in the first year, but exhibits an increase in the second and third year, indicative of the remedial measures taken by the faculty to attain the course outcomes.
- ✓ The attainment percentage is calculated for all courses of the UG and PG programmes. The attainment scores for the first semester UG courses is comparatively low and necessary action is to be taken in this regard

**3. Research and Extension:**

- ✓ The department has a full-fledged research centre with 2 research guides
- ✓ Consultancy services are provided in the area of quality control to Nichem Industries
- ✓ 4 paper publications in peer-reviewed journals
- ✓ A patent has been filed which is awaiting approval
- ✓ Funded research projects have been sanctioned to the centre by DST and DBT
- ✓ Faculty have attended webinars and workshops for updating subject knowledge and technological skills
- ✓ Faculty have served as resource persons in various academic programmes
- ✓ A few faculty members have also taken up prominent administrative roles

**4. Infrastructure and Learning Resources:**

- ✓ Full-fledged labs with appropriate equipment for B.Sc. and M.Sc. programmes
- ✓ Separate facilities for preparation and storage; Instrumentation room

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- ✓ Research lab with sophisticated and state of the art equipment for advanced microbiology research
- ✓ Well maintained Book bank with over 1000 books, e- repository of e- learning resources

#### **5. Student Progression/ Achievements:**

- ✓ Students have achieved awards at the National level in sports and academics (Microbiolympiad)
- ✓ 14 UG Students have cleared competitive exams and have progressed for PG programmes in reputed institutes
- ✓ 10 PG students have been placed in teaching and in reputed companies.
- ✓ Students are given specific training in capacity building and career orientation programmes; Vyakhya- training for competitive exams and Mock interviews
- ✓ A high percentage of students have qualified and progressed to higher studies
- ✓ The department association has organized a number of programmes for overall development of the students
- ✓ Involvement of alumni in the teaching process is a commendable initiative.

#### **6. Suggestions:**

##### **1. Curricular Aspects:**

- While revising the syllabus, courses with employability, value education, skill components, gender sensitization, environment awareness etc. can be included and the CO specified so that it can be included specifically in the AQAR.
- Programme/ Course feedback can be taken from the parents, employers and alumni
- Interdisciplinary certificate courses and value added courses can be designed for industry requirements

##### **2. Teaching, Learning and Evaluation**

- A specific documented mechanism can be adopted to demarcate the remedial and advanced learners.
- Question banks can be prepared for each course
- MOOC courses can be designed in the online mode including the 4 quadrant approach

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### **3. Research and Extension:**

- Emphasis to be given to field based projects for B. Sc. and M.Sc. programmes
- M.Sc. students can be encouraged to design their projects so that it can be published in peer-reviewed journals
- Collaborative projects can be conducted involving MoUs with collaborating agencies
- Extension and outreach activities to be strengthened


### **4. Infrastructure and Learning Resources:**

- The sophisticated research instrumentation facilities can be outsourced to promote fund generation
- Certificate course in Biological Instrumentation techniques can be designed including other allied departments

### **5. Student Progression/ Achievements:**

- Identify and segregate final year students into Placement Oriented, Higher Education Oriented, Entrepreneurship Oriented and Others
- Targeted training programmes for addressing each categories' career aspirations in coordination with Career Guidance cell, Placement cell and ED Clubs
- The department can provide scholarship to at least one student, encouraging the PTA and the alumni for their contributions

Name of the Auditor: Dr. Alphonsa Vijaya Joseph

 16-12-2021  
Signature and Date

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RAMNARAIN RUIA AUTONOMOUS COLLEGE  
MATUNGA, MUMBAI- 400 019**

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>B. VoC GREEN HOUSE MANAGEMENT</b>                |   |   |
|---|---|---|
| Name of the Auditor                                 | : | DR. ALPHONSA VIJAYA JOSEPH  |
| Academic Year for which Academic Audit is Conducted | : | 2020-‘21  |
| Day and Date of Audit                               | : | Thursday, 16 <sup>th</sup> December, 2021   |
| Duration of the Audit                               | : | 90 minutes (Online)   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

**1. Curricular Aspects:**

- ✓ The programme offered are B. VoC. Green House Management with multiple exit points: Diploma, Advanced Diploma and B. VoC.
- ✓ Curriculum designed as per NSQF guidelines including general components and skill components
- ✓ Certificate courses in Organic Gardening, Aquascaping and Interiorscaping
- ✓ Diploma course in Floral Design (Not initiated due to pandemic)
- ✓ OBE oriented syllabus structure
- ✓ Internships are integrated in the curriculum

**2. Teaching, Learning and Evaluation:**

- ✓ Online teaching was exercised during the academic year
- ✓ Teaching methods adopted were flipped classrooms, videos, online demonstrations and case studies
- ✓ Students were encouraged to practice the practical sessions at home
- ✓ Field trips were organized to facilitate the learning process
- ✓ The Department has one faculty member dealing the skill components
- ✓ The question papers were prepared based on the blue print that incorporates Bloom’s taxonomy criteria including low, medium and high level questions.
- ✓ Evaluation methods are well defined for both internal and external assessment

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- ✓ Internal evaluation is based on assignments, case studies, presentation and surveys
- ✓ The mapping of the COs, POs and PSOs have been done for each course
- ✓ The attainment percentage is calculated for all courses and appropriate corrective measures are adopted wherever necessary

**3. Research and Extension:**

- ✓ Faculty have attended webinars and workshops for updating subject knowledge and technological skills
- ✓ Faculty have served as resource persons for various programmes
- ✓ Honorary consultancy has been provided to set up tissue culture lab at NES Ratnam College

**4. Infrastructure and Learning Resources:**

- ✓ Laboratory and Classroom with smartboard
- ✓ Polyhouse (1) and Shade net settings (3)
- ✓ Aquaponics set up system
- ✓ Basic facilities for plant tissue culture

**5. Student Progression/ Achievements:**

- ✓ Students are given training in capacity building and career orientation programmes
- ✓ Students have developed entrepreneurship development skills
- ✓ The department association has organized a number of programmes for overall development of the students

**6. Suggestions:**

- Since vocational courses are based on experiential learning, ample opportunities for skill development, both in the college and in industries, are to be provided to the students.
- The fee for the programme has to be normalized for a few years and the course delivery to be attractive so that students are attracted to the course
- Internships to be strengthened and more practical based assessments methods to be adopted
- Space is a constraint for skill practice in the college premises

Name of the Auditor: Dr. Alphonsa Vijaya Joseph



16-12-2021

Signature and Date

**S. P. MANDALI'S  
RAMNARAIN RUIA AUTONOMOUS COLLEGE  
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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF PHYSICS</b>                        |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Prof. (Dr.) R. K. Kamat  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | 18-12-2021   |
| Duration of the Audit                               | : | 10.00 am to 11.00 am   |
| Proceedings of the Academic Audit                   | : | <p>The process of the Academic Audit was systematically planned and carried out online:</p> <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

1. Curricular Aspects:

The curriculum of the Department of Physics is comprehensive and rigorous and provides a mixture of theoretical and practical courses. The experienced faculty teach courses with expertise in various areas, including plasma physics, computational physics, condensed matter systems and quantum theory. The Department offers undergraduate programmes leading to BSc and postgraduate programmes leading to M.Sc and Ph.D. programmes. The curriculum outcomes are well articulated along with Choice Based Credit System implementation. One of the striking features of the curriculum is the 'Applied Component', which helps in the capacity building of the students to take up gainful employment and further studies.

2. Teaching-learning and Evaluation:

Teaching-learning in emergency settings, especially pandemic emergencies, is complex and challenging. In this regard, the efforts of Department faculty members are appreciable. Their dedication to and passion for reaching out to the students through the blended mode in emergencies is genuinely commendable. Through the



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MHRD Virtual laboratories, the faculty could showcase how well the laboratory components can be handled. Moreover, they recorded the conduct of laboratory experiments, thereby helping the students gain the much-required hands-on component. The use of simulation packages such as LTSPICE also facilitates the students to learn and understand the concepts better. The faculty members are also providing ample support to students regarding their assignments and projects. All this is further supplemented by the webinars of experts which provides the much needed professional exposure for the students. The Department is meaningfully using the evaluation rubrics blueprint to measure the quality of student work.

### 3. Research and Extension:

The Department was established in 1937 and started with a few instruments. With the consistent efforts of the founding teachers and the support of college management, the Department has grown substantially over these years and become one of the central departments researching the national and international arena. The Department started research activity with the Ph.D. centre with a present sanctioned capacity of 6 Ph.D. students. Currently, the Department has two research guides. Department has received grants from the funding agencies like DBT, DST, UGC and CSIR. The collaborations with a few reputed national institutes such as TIFR is noteworthy. The Department has carved out a niche for itself in different areas of Physics.

The Department is also a forerunner in extension activities. For the last ten years, the Department has organized the annual festival "INFINITY", wherein Principles and concepts of Physics are demonstrated with the working models designed by the students under the guidance of teachers. Students and teachers from other colleges do visit the "INFINITY" festival and appreciate the effort of the department faculty and students. Every year the response of the visitor is overwhelming. Under the "BRAHMAND" An amateur astronomy club, the Department organizes lectures by inviting eminent personalities, experts from the field of astronomy and cosmology. Some other activities under this banner include telescope handling workshop, Night Sky observation, and the reflecting type telescope fabrication.

### 4. Infrastructure and Learning Resources:

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The Department has been maintaining relevance in academic infrastructure by upgrading its laboratories in a phased manner, which should be appreciated. The vibration-proof table along with the central facility at 'Dr. Ramanathan Advanced Instrumentation Centre', equipped with sophisticated instruments such as FTIR, UV, HPLC, HPLTC, Atomic Absorption Spectroscopy, GC, GCMS and differential scanning Calorimetry, is being used by Physics students for the characterization of the material sample synthesized during the research activity.

5. Student Progression/ Achievements:

Student achievements are commendable both in academics and also in societal extension. The guidance offered by faculty mentors has helped students achieve their full potential in both life and academics. An example of this is the successful organization of the Solar Urja Lamp (SoUL) in collaboration with IIT Bombay, which has direct relevance to the masses. Students are also participating in 'Avishkar' and other competitions and keeping them abreast with the latest in the field through industrial visits. The Department alumni is well placed and doing brilliant in all the walks of life.

6. Suggestions:

Department has achieved several milestones and produced a galaxy of eminent personalities like Dr. Kasturi Rangan, Ex-ISRO Chief and planning commission, Dr. Ajit Kumbhavi Director, IUCAA, Dr. S. B. Patel, Ex. Head and professor at CBS Centre, Dr. Vaibhav Prabhudesai, Scientist at TIFR and many more. The Department may leverage the strong alumni connect and organize events to infuse liking for Physics for the budding student community. The Department should also gear up to implement Academic Bank of Credits and Multiple Entry-Multiple Exit as envisaged under NEP-2020.

Name of the Auditor: Prof. (Dr.) R. K. Kamat

  
**Dean,**  
**Faculty of Science & Technology,**  
**Shivaji University,**  
**Kolhapur-416 004**

December 18, 2021

**S. P. MANDALI'S  
RAMNARAIN RUIA AUTONOMOUS COLLEGE  
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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF MATHEMATICS</b>                    |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. K. S. MADHAVA RAO  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | WEDNESDAY, 15 <sup>TH</sup> DECEMBER 2021  |
| Duration of the Audit                               | : | 15:45 HRS TO 16:30 HRS   |
| Proceedings of the Academic Audit                   | : | <p>The process of the Academic Audit was systematically planned and carried out online:</p> <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

1. Curricular Aspects:

The Department of Mathematics offers three UG programmes, B.A. in Mathematics, B.A in Mathematics and Economics and B.Sc. in Mathematics. All these programmes are of 3 years' duration. The B.A in Mathematics programs has a total of 55 credits. The program credits in B.A. in Mathematics are distributed among 16 taught theory and 4 supervised practical courses over the period of three years. The B.Sc.in

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'Star College Status' by DBT, Govt. of India  
'College of Excellence' Status by University Grants Commission  
Re-accredited (4<sup>th</sup> Cycle 2017) with 'A+' grade by NAAC (3.70 CGPA)  
Conferment of Autonomous Status - 2017  
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Mathematics has a total of 67 credits. These credits are distributed among 20 taught theory and 4 supervised practical courses over the period of three years.

The programme outcomes (PO) are well defined and it seen that attainment of the required qualification would certainly lead to fulfilment of stated programme objectives. The programme curriculum of both B.Sc. in Mathematics and B.A in Mathematics are well designed. Further, well-articulated program specific outcomes (PSO) perfectly align with the PO as could be clearly seen as in mapping of CO with PSO and PO/ Attainment for the case of the new syllabus; effective from AY 2020-21.

The syllabus of all the courses related to the two programmes are well framed and is in line with the needs of academia, industry and to be acquired qualifications. The syllabus of all the theory and practical courses are well unitized. Each programme has a well-balanced practical component which provides a platform for the learners to engage in hands on application of topics learnt in the theory courses. For practical classes, the software MATHEMATICA-11 is used for symbolic and numerical computing.

Based on my assessment, the rating for curricular aspects is Very Good.

2. Teaching-learning and Evaluation:

Due to the ongoing Covid 19 pandemic situation, both teaching and learning activities have been online. Google meet has been the preferred online platform. Teachers seemed to have availed and fully utilized Google meet features such as ICT Tools, Google class Room, among others, to ensure effective class engagement and management. Teachers also engaged students in one-on-one correspondence for effective mentoring using online platforms and messengers. Remedial coaching was provided for slow learners.

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Workshops and seminars on advanced topics were also organized in an online mode to meet the expectations of the advanced learners.

The programme outlines an effective evaluation strategy consisting of two components, namely, continuous internal assessment and semester term end examinations. The weightage of ICA to TEE is 2:3. The question paper pattern has been well articulated across courses offered in the programme. The TEE question papers are set according to a blue print question paper. For the period under review, TEE have been based on MCQ rather than traditional descriptive format.

There are 5 teaching faculty in the Department out of which two have Doctorate Degree in Mathematics. The Department is operating at a challenging programme credit - core faculty ratio of 24.

Based on my assessment, the rating for Teaching-learning and Evaluation is Good.

**3. Research and Extension:**

During the year under review, two research output by faculty members have been reported. Further one of the faculty members has been a recipient of minor research project grant.

The Department has organized several extension activities including annual Mathtrix festival, training programme for competitions and JAM exam, skill-based workshop for Data science and guest lectures by eminent Mathematicians.

Based on my assessment, the rating for Research and Extension is Good.

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4. Infrastructure and Learning Resources:

The two programs offered by the Department have good proportion of practical sessions which require basic and state of the art computational facilities and easy access to mathematics software. The department has a dedicated computer laboratory for students that includes 20 desktops, 3 printers, hard disk and internet facilities. The lab facility caters to the needs of students who may require institutional computing facilities to engage in practical classes. Further, students have been provided with Mathematica-11 network license. The Department also has an inhouse library with a collection of over 250 books; which further enhances the access and equity issues related to learning resources.

Based on my assessment, the rating for Infrastructure and Learning Resources is Very Good.

5. Student Progression/ Achievements:

Both B.Sc. in Mathematics and B.A in Mathematics programme recorded 100% passing rate. A reasonable turnover rate of 34% is seen in terms of academic progression of graduates of the Department in to higher studies. This is a clear indication of the motivational efforts put in place by the faculty members of the department in terms of student advising leading to pursue of their academic career. The presentation did not capture placement statistics of students who passed out in 2021.

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A few students appear to have been well focussed in their goals to acquire higher qualifications. About 5 students cleared competitive entrance examinations like IIT JAM, CAT, TIFR etc. The presentation did not capture record of participation of students in curricular/co-curricular/extracurricular/sports and games activities.

Based on my assessment, the rating for Student Progression/ Achievements is Very Good.

6. Suggestions:

- (a) The Department may consider having an E-text book repository to further augment the access of existing library text books for the students.
- (b) The Text books referencing system followed at the end of syllabus may include ISBN number as per the basic format to reference a text book.
- (c) The Department should engage in an exercise of benchmarking the programmes offered with similarly placed institutions in cities within and outside the state. Besides programme structure and curriculum, student progressions and placement statistics (subject to availability online) can be some pointers in bench marking.
- (d) The Department should engage in a dialogue with the marketing and publicity unit of the college to upgrade Department profile in the college website. For example, (i) in Faculty tab, it is suggested to follow a common template and the faculty should ensure that all the required information is well populated, (ii) in Dept. Activity tab, it is suggested to provide complete details of the activities along with photographs (iii) it is suggested to give company wise breakup of placement statistics.

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- (e) In Alumni tab, it is suggested to provide year of study and portrait of alumni.  
The surviving alumni may be approached to write a small message carrying reminiscence of their association with the faculty.
- (f) I encourage the faculty members to give their thoughts to engage in a better branding exercise of the programmes offered. I believe the faculty has the full potential and competency to carry out such an exercise.
- (g) An analysis of end of semester students' feedback on curriculum and faculty may be included in the presentation document in the next cycle of academic audit.
- (h) I did not see any mention during the presentation on the campus placement efforts. I suggest that this requirement may be either captured or be planned and executed in the next cycle of academic audit.

In the end, I am of the firm opinion that the visibility of the Department and hence the College in the comity of tertiary institutions will be enhanced if the aforementioned suggestions are seriously looked into.

|   |
|---|
| Name of the Auditor: Dr. K S MADHAVA RAO<br>Professor of Statistics, NMIMS Deemed to be University, Vile<br>Parle, Mumbai, 400056 |
|---|

|   |
|---|
| <br>Signature and Date:<br>22.12.2021 |
|---|



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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF STATISTICS</b>                     |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. K. S. MADHAVA RAO  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | WEDNESDAY, 15 <sup>TH</sup> DECEMBER 2021  |
| Duration of the Audit                               | : | 15:00 HRS TO 15:45 HRS   |
| Proceedings of the Academic Audit                   | : | <p>The process of the Academic Audit was systematically planned and carried out online:</p> <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

1. Curricular Aspects:

The Department of Statistics offers two UG programmes, B.Sc. (Statistics) and B.A (Economics-Statistics). Both the programmes are of 3 years' duration. The B.Sc. programs has a total of 62 credits. The program credits in B.Sc. (Statistics) are distributed among 18 taught theory and 8 supervised practical courses over the period three years. The B.A (Economics- Statistics) has a total of 41 credits. These credits

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are distributed among 12 taught theories and 6 supervised practical courses over the period three years.

The programme outcomes (PO) are well defined and it seen that attainment of the required qualification would certainly lead to fulfilment of stated programme objectives. The programme curriculum of both B.Sc. (Statistics) and B.A (Economics- Statistics) are well designed. Further, well-articulated program specific outcomes (PSO) perfectly align with the PO as could be clearly seen as in mapping of CO with PSO and PO/ Attainment for the case of the new syllabus; effective from AY 2020-21. The syllabus of all the courses related to the two programmes are well framed and is in line with the needs of academia, industry and the acquired qualification. The syllabus of all the theory and practical courses are well unitized. The programme has a well-balanced practical component which provides a platform for the learners to engage in data driven application of topics learnt in the theory courses. The practical component of the curriculum trains the students to be familiar with Excel, R and TORA software. End of semester students' feedback on curriculum indicates that (i) 99% of the respondents believed beyond the scale of *good* in knowledge and concept value addition (ii) 97% of the respondents believed beyond the scale of *good* in imbibing analytical abilities (iii) 96% of the respondents believed beyond the scale of *good* in acquiring skill sets and (iv) 87% of the respondents believed beyond the scale of *good* in acknowledging the relevance of the subjects to meet the expectation of employers and industry.

Based on my assessment, the rating for curricular aspects is Very Good.

2. Teaching-learning and Evaluation:

Due to the ongoing Covid 19 pandemic eco system, both teaching and learning activities have been online. Google meet has been the preferred online platform. Teachers seemed to have availed and fully utilized Google meet features such as of

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ICT Tools, Digital Board, Google class Room, among others, to ensure effective class engagement and management. Teachers have also deployed innovative pedagogical techniques such as project-based learning, flipped classroom, group discussions, digital tools such as Canva among others.

The programme outlines an effective evaluation strategy consisting of two components, namely, continuous internal assessment and semester term end examinations. The weightage of ICA to TEE is 2:3. The question paper pattern has been well articulated across courses offered in the programme. The TEE question papers are set according to a blue print question paper. For the period under review, TEE have been based on MCQ rather than traditional descriptive format.

There are 7 teaching faculty in the Department of Statistics out of which three have Doctorate Degree in Statistics and 5 have been teaching for more than two decades. The Department is operating at an acceptable programme credit - core faculty ratio of 15. Based on the TY B.Sc. semester 5 and semester 6 marks, the rating of level of attainment of course outcomes are HIGH for all the courses.

Based on my assessment, the rating for Teaching-learning and Evaluation is Very Good.

3. Research and Extension:

During the year under review, there appears to be no research output by the faculty members. However, all the faculty members have participated in at least one Seminar/ webinar/workshop/course completion. It is interesting that five out of the 7 seven faculty members have four or more such achievements. No extension activities seemed to have been organized during the current audit period.

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Based on my assessment, the rating for Research and Extension is Good.

4. Infrastructure and Learning Resources:

The two programs offered by the Department have a good proportion of practical sessions which require basic and state of the art computational facilities and easy access to statistical software. The department has a dedicated computer laboratory for students that includes 25 scientific calculators, 2 laptops, 3 printers and 9 desktops. The lab facility caters to the needs of students who may require institutional computing facilities to engage in practical classes. Further, students have been provided with licensed versions of statistical software such as SPSS23.0, SEdR1.0. The Department also has an inhouse library with a collection of over 200 books; which further enhances the access and equity issues related to learning resources.

Based on my assessment, the rating for Infrastructure and Learning Resources is Very Good.

5. Student Progression/ Achievements:

The passing rate and turnover rate in terms of academic progression of graduates enrolled into B.Sc. (Statistics) and B.A(Economics-Statistics) programme are very high. As high as 45 out of 61 students who completed their UG programme further chose to continue their studies by enrolling into postgraduate programmes. This is a clear indication of the motivational efforts put in place by the faculty members of the department in terms of student advising leading to pursue of their academic career. In terms of placement, 4 students secured employment after the successful completion of the programme.

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The students appear to have been well focussed in their goals to acquire higher qualifications. About 23 students appeared for competitive entrance examinations like GRE, IIT JAM, IELTS. A good number of students engage themselves in curricular/cocurricular/extracurricular/sports and games activities. A few of these students have won prizes/medals/ended up in podium finish at different levels of competitions such as inter-university, state, national and international.

Based on my assessment, the rating for Student Progression/ Achievements is Very Good.

6. Suggestions:

- (a) The Department may consider having an E-text book repository to further augment the access of existing library text books for the students.
- (b) The Text books referencing system followed at the end of syllabus may include year of publication and ISBN number as per the basic format to reference a text book.
- (c) The Department should engage in an exercise of benchmarking the courses offered with similarly placed institutions in cities within and outside the state. Besides programme structure and curriculum, student progressions and placement statistics (subject to availability online) can be some pointers in bench marking.
- (d) The presentation may include a line or two describing the initiatives to put in place on campus placement of students of the department.
- (e) The Department should engage in a dialogue with the marketing and publicity unit of the college to upgrade Department profile in the college website. For

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- example, in (i) Faculty tab, it is suggested to follow a common template and the faculty should ensure that all the required information is well populated, (ii) Dept. Activity tab, it is suggested to provide complete details of the activities along with photographs (iii) it is suggested to give company wise breakup of placement statistics.
- (f) In Alumni tab, it is suggested to provide year of study and portrait of alumni. The surviving alumni may be approached to write a small message carrying reminiscence of their association with the faculty. On a different note, I find that Professor(Dr.) Anil P Gore, one of the illustrious teacher and consulting statistician of the country, who also happens to be an alumni of the Department does not figure in the list! I suggest that the steps may be taken to include Professor Gore in the list of alumni.
- (g) I encourage the faculty members to give their thoughts to engage in a better branding exercise of the programmes offered. I believe the faculty has the full potential and competency to carry out such an exercise.
- (h) I did not see any mention during the presentation on the extension activities that the Department had conducted during the audit period. I suggest that this requirement may planned and executed in the cycle of academic audit.

In the end, I am of the firm opinion that the visibility of the Department and hence the College in the comity of tertiary institutions will be enhanced if the aforementioned suggestions are seriously looked into.

Name of the Auditor: Dr. K S MADHAVA RAO  
Professor of Statistics, NMIMS Deemed to be University, Vile  
Parle, Mumbai, 400056

  
Signature and Date  
:21.12.2021

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF COMPUTER SCIENCE &amp; IT</b>      |   |   |
|---|---|---|
| Name of the Auditor                                 | : | Prof. (Dr.) R. K. Kamat   |
| Academic Year for which Academic Audit is Conducted | : | 2020-21   |
| Day and Date of Audit                               | : | 18-12-2021  |
| Duration of the Audit                               | : | 9.00 am to 10 am  |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"> <li>• Interaction with the faculty</li> <li>• Presentation of documents online by the Department</li> </ul> |

After analysing presentations and interacting with the faculty, I am submitting my observations as under:

1. Curricular Aspects:

Given the rapid rate of obsolescence of knowledge in Computer Science & IT, the Curriculum is being updated and revised periodically, in the light of the needs of Academia and Industry.

Through the Certificate Courses such as Python Programming, Web Development, the students are provided with Choice to Learn state of the art concepts. Even students from other departments such as the Bio-Sciences are taking advantage of this are noteworthy aspects. The Department has put in place the OBE model effectively. Overall the Curriculum is well designed with a smooth transition of the subject matter to nurture the students from beginners to masters' level.

2. Teaching-learning and Evaluation:

The Department faculty has deployed Bloom's taxonomy blueprint, a model that allows characterizing students' learning achievements. Teachers in the Department are applying various teaching and learning methods to support the students' learning performance. Project-Based Learning (PjBL) is widely used to ensure hands-on.

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Students can apply their technical knowledge, acquire practical skills in programming, get involved in team processes, and understand soft factors in project management leading to their journey towards entrepreneurship. The rubrics for evaluation are also professionally designed. All this supposedly seems to foster the pleasure of learning and their transfer to the professional praxis.

3. Research and Extension:

The faculty is keen to pursue their research; however, more thrust is required to publish in scholarly journals. Given the limited scope of their activities, it is difficult for them to engage with other researchers across the state. It is an issue of the quality of their research and its publication. The department has instituted e-waste collection activity and also has tie-ups with NGOs. In some instances, the department faculty and students have a fair presence in national conferences, seminars, workshops, and project competitions.

4. Infrastructure and Learning Resources:

The Department has state of the art infrastructure with dedicated laboratories for UG and PG. All laboratories have high configuration systems and good quality internet connection.

5. Student Progression/ Achievements:

The Student achievements are on the rise, and the Department offers a conducive environment in this regard. The average examination results are more than 90%. The Department is working to motivate its students and produce a generation that will be well-prepared for the challenges they might face during their professional life or studies! In order to achieve this goal, the Department is also working on providing a well-arranged internship of 18 credits. The holistic development of a student is taken into account, and that is why the Department also offers various opportunities to cultivate the talents of its students through intercollegiate festivals. The Department students have good number of prizes/awards to their credits. Notable amongst them include the First prize in One-Time Code event held at the Intercollegiate Technical Festival at Rizvi College and a College Trophy for the Overall Technical Event Winners at the Intercollegiate Technical Festival Syntech held at R. D. National College, Bandra both in January 2020 just before the pandemic.

6. Suggestions:



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The Department has achieved academic excellence through its faculty members, a group of experienced, young, dynamic and well-trained professionals. The excellent academic record achieved by its students gives testimony to the overall quality of the Department. Thus the Department's objective is to achieve excellence by keeping up with changing needs of the industry and society. It is recommended that the Department should initiate student clubs under the realm of the apex organizations such as IEEE / ACM/CSI. Nomenclature of some of the courses, for instance 'Full Stack Web Development I/II', may also be suitably revised. The Department should also gear up to implement Academic Bank of Credits and Multiple Entry-Multiple Exit as envisaged under NEP-2020.

Name of the Auditor: Prof. (Dr.) R. K. Kamat

  
**Dean,**  
**Faculty of Science & Technology,**  
**Shivaji University,**  
**Kolhapur-416 004**

December 18, 2021

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College of Excellence' by UGC, Govt. of India – 2014

**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF CHEMISTRY</b>                      |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. Pravin Chimaji Mhaske  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | 16/12/2021   |
| Duration of the Audit                               | : | 3:00 pm to 3:45 pm   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

The Chemistry department has UG, PG by Papers, PG by Research and Ph. D. programmes. The syllabi have been prepared by the well-established BOS members in consultation with experts from industries, research organizations and national institutes and feedback on syllabus was taken from the Stakeholders. Apart from the syllabus, students get "Hands On" training of basic and advanced instrumentation techniques.

2. Teaching-learning and Evaluation:

There are well established Teaching-learning and Evaluation system. The faculties have made efforts to balance the students-centric education by supplementing the traditional learning practices. The lectures are conducted with various teaching aids, such as demonstration apparatus, models, charts, slides and use of ICT. The evaluation pattern was well developed, covers all syllabus and all types of assessments were conducted. The students are made aware of the safety aspects when working in the chemistry laboratory. The student's feedback was considered to advance the teaching-learning and evaluation.

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**MATUNGA, MUMBAI- 400 019**

DBT BUILDER Program by the Department of Biotechnology, Govt. of India - 2021  
Grant from RUSA- Component 8: Challenge level funding for enhancing Quality and Excellence - 2018

'Star College Status' by DBT, Govt. of India

'College of Excellence' Status by University Grants Commission

Re-accredited (4<sup>th</sup> Cycle 2017) with 'A+' grade by NAAC (3.70 CGPA)

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3. Research and Extension:

The Chemistry Department is well recognized Research Centre and Seven Faculties are recognized research guides. There are well established advanced instrumentation facility in the department. Presently 20 students are registered for the doctoral degree. The department is also conducting M Sc by research programme. Two minor research projects are ongoing. Four research papers are published in AY 2020-21.

4. Infrastructure and Learning Resources:

The department has spacious and well-established laboratories. The instrumentation facility is well developed.

5. Student Progression/ Achievements:

The department has developed system for student's progression towards higher studies. The passing percentage of student is good. Most of the UG and PG students are placed in the nearby industry or selected for the higher education. Many students are getting the admission in national and international institutes.

6. Suggestions:

- Along with the degree, additional Certificate Course in instrumentation techniques for UG/PG students.
- Provide support for slow learners as well as on advanced learners.
- Need to increase the number of research publications in reputed International Research Journals.
- To generate funds for research, need to apply for Major and Minor research projects as well as to conduct the industry sponsored research projects.
- Seed money for facilitate the research activity.
- Participation of UG and PG students for research projects.
- Consultancy services
- Teachers should be encouraged to obtain grants for organizing Workshop/ conferences from different funding agencies.
- Needs to maintain the updated record of Student Progression and Achievements

Name of the Auditor: Dr. Pravin Chimaji Mhaske

*P. Chhaskar*  
16/12/21  
Signature and Date

S. P. MANDALI'S  
**RAMNARAIN RUIA AUTONOMOUS COLLEGE**  
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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF Pharma Analytical Sciences</b>     |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. Pravin Chimaji Mhaske  |
| Academic Year for which Academic Audit is Conducted | : | 2020-21  |
| Day and Date of Audit                               | : | 16/12/2021   |
| Duration of the Audit                               | : | 4:00 pm to 4:45 pm   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

Well designed Self financed and Skill based course. Feedback from the stallholders is considered for modification and implementation of the syllabus.

2. Teaching-learning and Evaluation:

There are well planned Teaching-learning and Evaluation system. The T.Y and S. Y. students are well trained during the programme. Sequential station-based evaluation of the experiments makes students more competent and skilled.

3. Research and Extension:

The Pharma Analytical Sciences department have their own clinical trial unit. Three research papers are published in AY 2020-21.

4. Infrastructure and Learning Resources:

The department has spacious and well-established laboratories. The instrumentation facility is well developed.

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5. Student Progression/ Achievements:

The Pharma Analytical Sciences degree students are placed in the nearby pharma industries and analytical laboratories. Some students are selected for the higher education.

6. Suggestions:

- Provide support for slow learners.
- Need to increase the number of research publications / case study reports in reputed International Research Journals.
- To generate funds for research, need to apply for Major research projects to Department of Health and Biotechnology, GoI, as well as to conduct the industry sponsored research projects.
- Consultancy services

Name of the Auditor: Dr. Pravin Chimaji Mhaske

*Pravin Chimaji Mhaske*  
16/12/2021  
Signature and Date

S. P. MANDALI'S  
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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF BIOANALYTICAL SCIENCES</b>         |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. Poonam S. Deshpande  |
| Academic Year for which Academic Audit is Conducted | : | 2020-2021  |
| Day and Date of Audit                               | : | 15/12/21   |
| Duration of the Audit                               | : | 1 hour   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

- Curriculum is revised to align with Outcome Based Education framework which is being implemented effectively.
- Department/College has also taken initiative in structuring Teaching Learning processes in an Outcome Based Education framework, however efforts is needed to devise methods to map COs and POs/PSOs and attainment methods.
- Certificate courses have been planned very well keeping in consideration of market value and current need.
- Introduction of new topics like- Regulatory affairs, Clinical and Pharma topics, GLP at FY level is a good initiative.

2. Teaching-learning and Evaluation:

- Good efforts taken by faculty to engage students by using various teaching pedagogy.
- One internal assessment can be made flexible where students can choose mode of assessment as per their choice and strength.
- Excellent use of ICT in teaching and assessment has been done.

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- Use of Rubrics is a good practise.
- Remedial coaching mechanism is good but needs to be documented properly and formalised.

3. Research and Extension:

- Good to see faculty contribution in research publication which can be strengthened with the help of multiple linkages.
- Students achievements in research based activities are also appreciable
- MoUs are good and efforts should be continued towards strengthening the same and keeping them active.
- Formal collaboration (e.g. in form of LoI) with the industry and research centres for internships and research should be initiated.
- Seed money can be provided for the in-house research work

4. Infrastructure and Learning Resources:

- Infrastructure is good with well-equipped laboratories.

5. Student Progression/ Achievements:

- Good
- Young Science Leadership, CSIR internship and such activities of students are good which should be encouraged more.

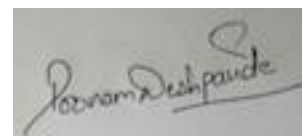
6. Suggestions:

- Mentoring mechanism should be streamlined formally.
- Policy for Identification of slow learners and advanced learners should be made.
- Remedial coaching is being done but needs to be formalised.
- Provision of Lateral entry to integrated course should be planned.
- Remedial coaching should be encouraged.
- Consultancy activities should be encouraged.
- Teaching plan should be made for all the courses.

Name of the Auditor:

Dr. Poonam S. Deshpande

Signature and Date



**S. P. MANDALI'S**  
**RAMNARAIN RUIA AUTONOMOUS COLLEGE**  
**MATUNGA, MUMBAI- 400 019**

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF BIOCHEMISTRY</b>                   |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. Poonam S. Deshpande  |
| Academic Year for which Academic Audit is Conducted | : | 2020-2021  |
| Day and Date of Audit                               | : | 15/12/21   |
| Duration of the Audit                               | : | 1 hour   |
| Proceedings of the Academic Audit                   | : | The process of the Academic Audit was systematically planned and carried out online: <ul style="list-style-type: none"><li>• Interaction with the faculty</li><li>• Presentation of documents online by the Department</li></ul> |

After analysing presentations and interacting with the faculty I am submitting my observations as under:

1. Curricular Aspects:

- Curriculum is revised to align with Outcome Based Education framework which is being implemented effectively.
- Department/College has also taken initiative in structuring Teaching Learning processes in an Outcome Based Education framework, however efforts is needed to devise methods to map COs and POs/PSOs and attainment methods.
- M.Sc students can have more exposure to research and motivated towards papers presentation.
- Skill based electives can be introduced

2. Teaching-learning and Evaluation:

- Good efforts taken by faculty to engage students by using various teaching pedagogy.

S. P. MANDALI'S  
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- One internal assessment can be made flexible where students can choose mode of assessment as per their choice and strength.
- Good use of ICT in teaching and assessment has been done.
- Collaboration with industry and research institutes should be initiated

3. Research and Extension:

- Good to see faculty contribution in research publication which can be strengthened with the help of multiple linkages.
- MoUs and Collaboration with the industry and research centres for internships and research should be initiated.
- Seed money can be provided for the in-house research work

4. Infrastructure and Learning Resources:

- Good
- E-resources/ content can be developed

5. Student Progression/ Achievements:

- Satisfactory
- Certificates of students participation in various activities (intra or inter-collegiate level) should be maintained.

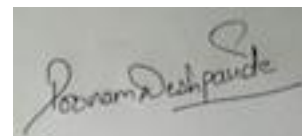
6. Suggestions:

- Mentoring mechanism should be streamlined formally.
- Strategy for identification of slow and advanced learners should be followed.
- Remedial coaching should be encouraged.
- Consultancy practises should be encouraged.
- Policy for degradation of Biomedical waste should be made.
- Teaching plan should be made for all the courses.

Name of the Auditor:

Dr. Poonam S. Deshpande

Signature and Date



**S. P. MANDALI'S**  
**RAMNARAIN RUIA AUTONOMOUS COLLEGE**  
**MATUNGA, MUMBAI- 400 019**

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**REPORT OF ACADEMIC AUDIT (2020-21)**

| <b>DEPARTMENT OF BIOTECHNOLOGY</b>                  |   |  |
|---|---|--|
| Name of the Auditor                                 | : | Dr. Poonam S. Deshpande  |
| Academic Year for which Academic Audit is Conducted | : | 2020-2021  |
| Day and Date of Audit                               | : | 15/12/21   |
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1. Curricular Aspects:

- Curriculum is revised to align with Outcome Based Education framework which is being implemented effectively.
- Department/College has also taken initiative in structuring Teaching Learning processes in an Outcome Based Education framework, however efforts is needed to devise methods to map COs and POs/PSOs and CO/PO attainment.
- Certificate skill based courses can be initiated with the help of Industry.
- Introduction of skill based elective courses like Forensic Science is appreciated and more such courses can be introduced.
- Interdisciplinary courses can be started.
- Involvement of students in curricular and extra-curricular activities is appreciated.

2. Teaching-learning and Evaluation:

- Good efforts taken by faculty to engage students by using various teaching pedagogy.
- One internal assessment can be made flexible where students can choose mode of assessment as per their choice and strength.

**S. P. MANDALI'S**  
**RAMNARAIN RUIA AUTONOMOUS COLLEGE**  
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- Excellent use of ICT in teaching and assessment has been done.

3. Research and Extension:

- Research contribution by staff is satisfactory and it can be strengthened with the help of multiple linkages.
- Students achievements in research based activities can also be increased.
- Formal collaboration (e.g.in form of LoI) with the industry and research centres for internships and research should be initiated which can help to strengthen the Institute-Industry interface .
- Seed money can be provided for the in-house research work

4. Infrastructure and Learning Resources:

- Infrastructure is good with well-equipped laboratories.

5. Student Progression/ Achievements:

- Good
- Students can be encouraged towards poster/oral presentations.
- Steps have been taken for the benefit of advance learners in the form of competitive exam preparation workshop

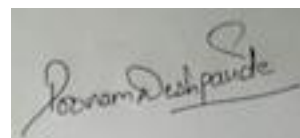
6. Suggestions:

- Efforts should be taken towards retention of staff which can strengthen the department further.
- Mentoring mechanism should be streamlined formally.
- Policy for Identification of slow learners and advanced learners should be made and remedial coaching should be done for slow learners.
- Participations in research activities along with publications, by faculty and students should be encouraged.
- Scope of consultancy activities is there which can be planned and implemented well.
- Teaching plan should be made for all the courses.
- 

Name of the Auditor:

Dr. Poonam S. Deshpande

Signature and Date



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