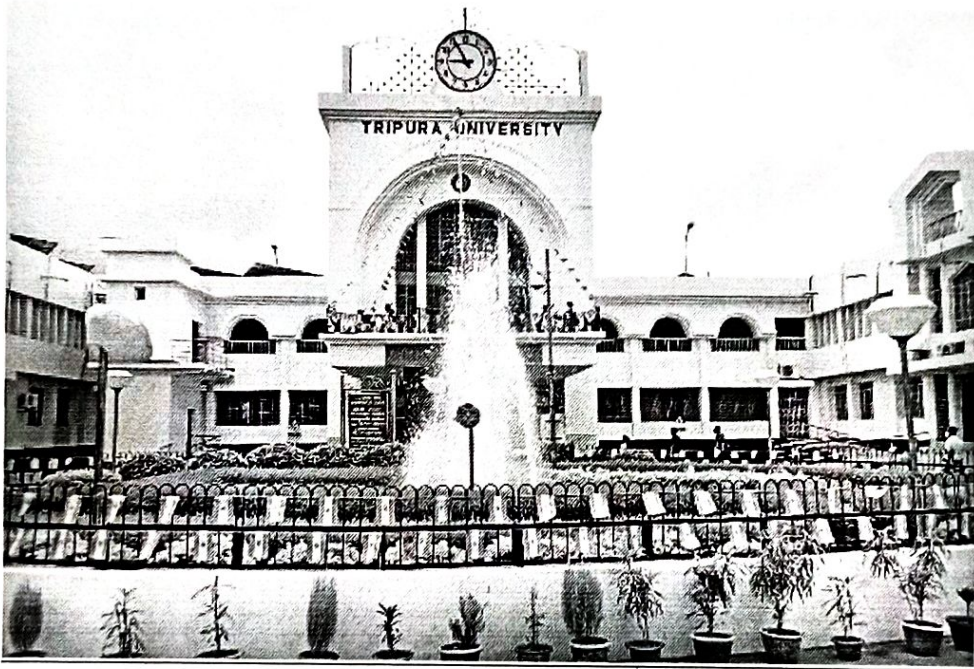




# ACADEMIC AUDIT REPORT

FOR THE ACADEMIC YEAR 2019-2020

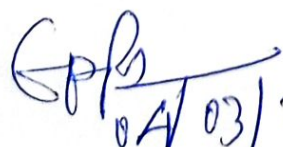


INTERNAL QUALITY ASSURENCE CELL

TRIPURA UNIVERSITY

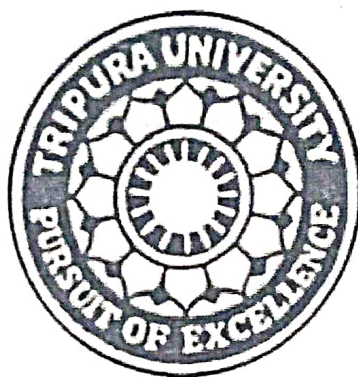
  
04/03/22

(Dr. Deepak Sharma)  
Registrar  
Tripura University

  
04/03/2022

प्रो० गंगा प्रसाद प्रसाई  
Prof. Ganga Prasad Prasad  
कुलपति / Vice-Chancellor  
त्रिपुरा विश्वविद्यालय  
Tripura University

**ACADEMIC AUDIT REPORT**  
**(FACULTY OF SCIENCES)**  
**For the year 2019-2020**



**Internal Quality Assurance Cell**

**TRIPURA UNIVERSITY**  
**(A Central University)**  
**Suryamaninagar**  
**Agartala-799022, TRIPURA**

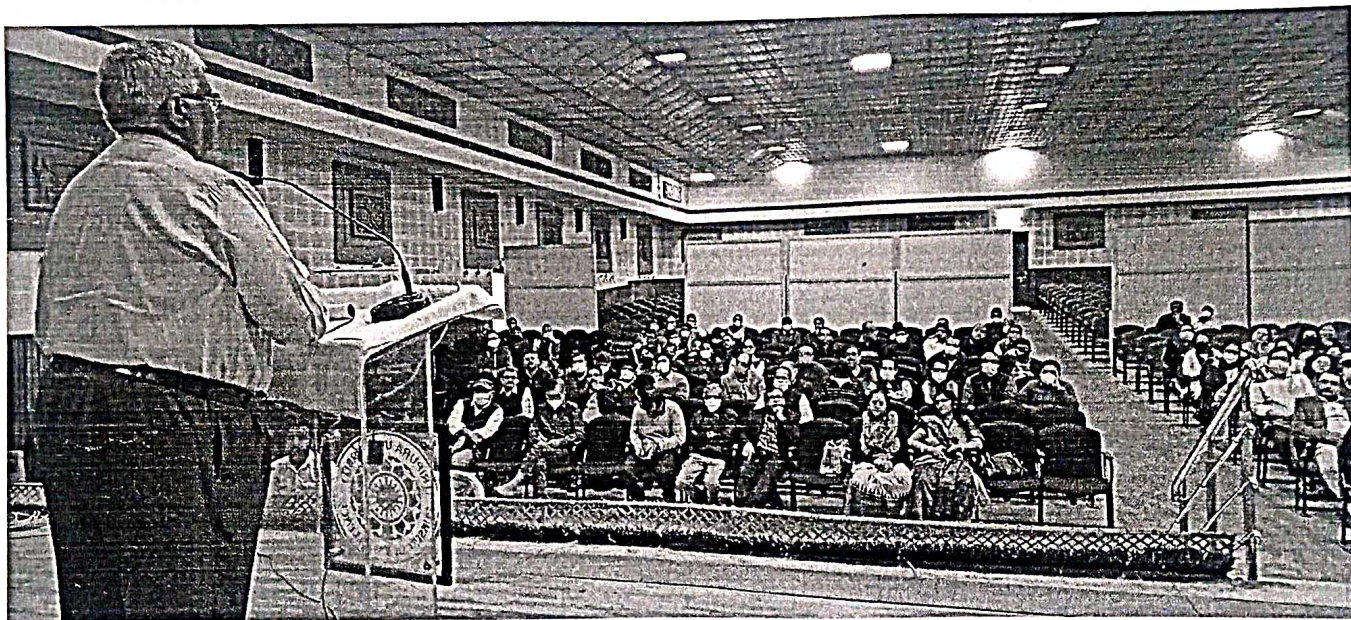


## Academic Audit Report 2021

Academic Audit report for the year 2019-2020 for Science Faculty of Tripura University was conducted from 12/12/2021 to 13/12/2021. The academic audit committee consisted of the following members critically examined the audit related documents submitted by the various Departments and visited each Departments of the Science Faculty and different facilities of the University for preparing this report.

- a) Prof. K.R.S. Sambasiva Rao, Vice Chancellor, Mizoram University, Aizawl, Mizoram
- b) Prof. Badal Kumar Dutta, Dean, Faculty of Science, Tripura University
- c) Prof. R.K. Nath, Former Dean, Faculty of Science, Tripura University
- d) Prof. B.C. Tripathy, Director, IQAC, Tripura University

### FACULTY OF SCIENCE



- The teaching at most of the departments is as per academic schedule and found to be good
- Research guidance requires to be improved so that the students can be awarded degree within minimum time period.
- Faculty members need to apply for more research grants and attempt for more publication.
- Startup culture needs to be encouraged among students
- Employment of student is average and requires special attention to improve it.

## **Department of Information Technology**

- In spite of having 45 seat capacities, very few students were admitted. Serious efforts are required to fill up the vacant seats
- The department with 7 faculty members offers 3 programs. Sincere efforts need to be taken by offering common courses in different programs, which, is going to cover syllabus properly.
- The research output of the department needs further improvement.
- Faculties need to apply for at least 2 research grants and target at least 2 publications per year.
- At least 1 paper need to be made compulsory for M. Tech programme.

## **Department of Botany**

- Academic and research progress is good
- More emphasize should be given into bamboo based startups, mushroom culture etc.
- The student involvement in various outreach activities needs to be improved.
- The department should offer and promote summer programs.

## **Department of Chemistry**

- Number of Ph.D. output per faculty need to be increased.
- Collaboration with top tier institutes of the country and that of abroad need to be improved.
- The vocational course offered by Chemistry i.e. B. Voc in Rubber Technology is appreciated, especially the placements was praised.
- Improvement in the M.Sc. Chemistry placement scenario is required.
- Appropriate MOOC courses need to be promoted further.
- Major facilities to be highlighted.
- Explore the possibility to allow contractual faculties to act as a co-guide.

## **Department of Electrical Engineering**

- M. Tech. students shall be encouraged to take up projects which may lead to quality publications and product development.
- Student progression and placement record to be updated
- Faculties need to apply for research grants from various funding agencies including AICTE.
- Faculty members are appreciated for practicing good teaching-learning methods.
- Retired Professors may be appointed as Adjunct Faculty members for smooth operation.



### **Department of Forestry and Biodiversity**

- Startups need to be registered by encouraging students of the department
- Publications and research work carried out by the department is satisfactory, however further initiatives to be taken to publish at least 1 research paper from each Masters Dissertation.
- Degree nomenclature (M.Sc. Forestry and Biodiversity) needs to be revised as per commonly accepted nomenclature and get accredited from SRA like ICAR/ICFRE for better job and carrier prospects of the department.
- Idea and process, patent filing should be initiated from the innovative ideas and research findings.
- Add at least 1 skill development course every year to encourage self-employment.

### **Department of Human Physiology**

- The nomenclature may be modified to Dept. of Medical Physiology, for the improvement in placement of the students in different medical colleges and institutes. In connection to this MCI to be approached through Hon'ble VC, TU.

### **Department of Library and Information Science**

- Teaching learning is satisfactory.
- Research publication needs to be improved and faculty must try to raise more grants.
- More involvement of students is required in the University. The students may be placed in various sections of the library and help the library to remain open for longer hours.

### **Department of Mathematics**

- Focus should be given on bringing more projects.
- Books to be written by the faculty members for making mathematics easy, especially for school going and college students respectively.
- More data related research should be promoted.
- Department syllabus need to be updated regularly and inclusion of MOOCs to be encouraged.
- Number of Ph.D. output per faculty need to be increased

### **Department of Molecular Biology and Bioinformatics**

- In spite of single faculty department the progress of the department in terms of research and publication is appreciated.

- Department can involve more faculties to help better teaching.

### **Department of Physics**

- Department is well organized and faculty members are found to be good in teaching, research and publication.
- They can take up more initiatives to encourage students for product development and register for startups.
- Instrument repairing workshop / facility may be started within the department to significantly help maintaining the scientific equipment's of the university.

### **Department of Zoology**

- Contribution of senior faculties in terms of research funding, Publications, PhD and Research grants are not upto the mark.
- Student activity and teaching learning activities shall be improved

### **Department of Chemical and Polymer Engineering**

- Emphasis is to be given to increase the student turnout.
- Feasibility study may be exercised to make B. Voc. students eligible for the M. Tech programme.
- The innovative ideas and IPR developed by the department are well appreciated.
- Student involvement in research publications, student/faculty awards and product development are well appreciated.
- More patents and startups shall be attempted.

### **Department of Computer Science and Engineering**

- Faculty members appreciated for practicing good teaching-learning methods.
- Department must encourage students to take up at least one MOOC course for credit transfer.
- At least publications in 2 good journals to be encouraged involving students.
- At least 2 research grants to be applied by faculty members per year.

### **Department of Electronics and Communication Engineering**

- M. Tech. Students shall be encouraged to take up projects which could lead to startups.
- Prospective ideas to be supported for forming startups.

## **Department of Geography and Disaster Management**

- Scope of improvement in research output per faculty especially in Scopus indexed journals are there.
- The data analysis of GIS systems using GPS has been appreciated and advised to be projected further.
- More focus should be given to the student activity, highlighting novel initiatives.

## **Department of Material Science and Engineering**

- Emphasis should be given to increase the student turnout.
- More patents and startups need to be formed.
- PhD output and research project grant are not encouraging.

## **Department of Microbiology**

- Department is doing well in research and innovation.
- Student's involvement needs to be projected well and encourage for various startups.

## **Department of Statistics**

- Research scholars need to be involved further for helping faculties with various academic activities
- Only 2 papers were published and no projects grants received so far.
- In view of fewer faculties in the department, it is suggested to cover the courses by adapting modular teaching methods.
- No Ph.D. produced. Besides, student projects need to be encouraged for development of innovative idea.
- Students shall be exposed to various open access softwares.

## **Department of Pharmacy**

- Faculties are appreciated for their efforts in raising grants for research projects
- Students project to be made with collaborative manner
- Improve Department-industry interaction.
- Involve research students systematically in various work to meet the shortage of staffs.

## **Central Instrumentation Facility**

- The sophisticated analytical facilities have been appreciated.



- The research infrastructure opened to external users at a nominal rate has also been appreciated.

### State Biotech Hub

1. The newly created facilities have been well appreciated.
2. Outreach activities to be enhanced further in near future.



*R.K. Nath*

**Prof. R.K. Nath**  
Professor, Dept. of Chemistry  
Tripura University

*B.C. Tripathy*

**Prof. B.C. Tripathy**  
Director, IQAC  
Tripura University

*Badal Kumar Dutta*

**Prof. Badal Kumar Dutta**  
Dean, Faculty of Science  
Tripura University

*K.R.S. Sambasiva Rao*

**Prof. K.R.S. Sambasiva Rao**  
Vice Chancellor  
Mizoram University



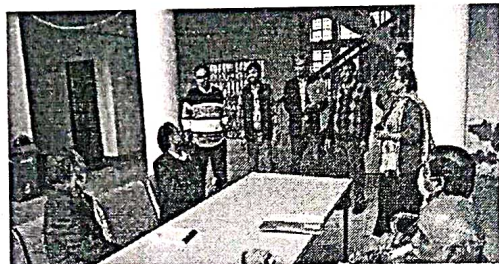
**Academic Audit Report**  
**Faculty of Arts and Commerce**  
**For the Academic Year 2019-20**

**Internal Quality Assurance Cell**  
**Tripura University**

An Academic Audit was conducted for the year 2019-20 for the Arts and Commerce Faculty of Tripura University on December 21, 2021, constituted by the following members:

1. Prof Alok Kumar Chakrawal, Vice Chancellor, Guru Ghasidas University (A Central University), Bilaspur, Chattisgarh
2. Prof Hem Chandra Gautam, Senior Professor and Advisor, Royal School of Commerce, Royal Global University, Guwahati
3. Prof Shyamal Das, Dean, Faculty of Arts and Commerce
4. Prof B.C. Tripathy, Director, IQAC, Tripura University

The Academic Audit Committee visited each of the departments in the Faculty of Arts and Commerce and critically examined audit-related documents as furnished by various departments, and offered valuable suggestions for augmenting the performance of all the departments.







### **General observations / suggestions on the Faculty of Arts and Commerce**

1. It was observed by the members that the performance of most departments was commendable over the assessment period.
2. It was suggested that each of the departments may engage in extension activities, consultancy and outreach activities.
3. It was suggested by the members that each department take appropriate steps to maintain mentor-mentee lists along with a dynamic student profile, with diaries to keep track of student progression at each semester.
4. On the basis of students' profile after the allocation of mentees, it was suggested that the mentors identify and address individual needs of slow learners, medium learners and advanced learners, and the strategies of identification be documented and preserved for future reference.
5. Faculty members were advised to encourage students to use MOOC/NPTEL/SWAYAM platforms for various courses wherever possible.
6. Faculty members were advised to frame/prepare the following:
  - A. Program specific Objectives and Outcomes
  - B. Course-specific Objectives and OutcomesWhile preparing/framing outcomes, care should be taken to use "action-verb" only.
7. The members advised faculties to strategize on the implementation of the NEP 2020, particularly with respect to experiential learning along with maintenance of data on placement, with full documentation of pay package.

### **DEPARTMENT-WISE REPORT**

#### **Dept of Physical Education**

- It was advised that the faculty members remain alert in presentation and preservation of all documents with full clarity and precision.
- It was advised that the respondents offer clear and precise statistics and figures on coaches, full PhD scholar-strength etc.
- It was suggested by the team members that the faculty members make and innovate professional programs in order to compensate for the paucity of published papers.
- The lack of articles in indexed journals by the respective faculty members was also observed and noted.
- Outcome based learning ought to be initiated.

### **Department of Hindi**

- The members of the Audit Committee suggested that the faculty members make full use of teaching aids like the interactive board
- MOOC contribution solicited from the department
- Participation in NPTEL and Swayam solicited in the department.
- Faculty members were advised to coordinate among all the language departments of the university
- Value added courses and Diaspora related research projects be undertaken by the faculty.

### **Department of Bengali**

- The record and data provided by the Department of Bengali for its audit purposes remains satisfactory.
- It was suggested that the exact record of admitted students from other states be properly maintained.
- More emphasis should be given to promote outreach programs.

### **Department of English**

- It was advised that a Mentor-mentee profile to be maintained.
- Diary of record on students' profile to be maintained
- Students' Progression data to be compiled and maintained, with special analysis of dropouts
- Identification of slow and advanced learners be maintained with evidence of strategy.
- Creative writing courses may be introduced.

### **Department of Philosophy**

- More emphasis should be given to publications by individual faculty members.
- It was suggested that the department may promote interdisciplinarity.
- MOOC Courses be promoted further

### **Department of History**

- It was suggested that the departmental profile be presented and documented properly.
- It was also suggested that the students' profile be maintained through which learners could be properly identified as 'slow' or 'advanced'.
- Relevance of history as a discipline through experiential learning be incorporated.

### **Department of Sanskrit**

- More emphasis ought to be given to experiential learning in the field of Sanskrit studies.
- Attempts may be made to seek employability avenues beyond academia.
- It was suggested that the department may coordinate with Rashtriya Sanskrit Sansthan and Kumar Bhaskar Varma Ancient Sanskrit Studies University, Assam for student and faculty exchange programs.



### **Department of Political Science**

- Attempts may be made by the department to initiate community integration programs in Tripura.
- It was suggested that the department maintain proper record and data on publications, projects etc. of faculties.
- Mentor-mentee data to be appropriately maintained with student progression index
- Slow and advanced learners to be identified
- It was advised by the members of the audit team that the department undertake extension initiatives and programs like voting rights encouragement, social awareness programs, social responsibility awareness campaigns etc with proper documentation.

### **Department of Business Management**

- Academic and research progress of the department was found to be satisfactory.
- It was advised that the department maintain student progression along with proper result analysis
- Evidence of student placement be maintained with proper data on pay package/salary.
- It was also advised that start-ups be included as potential placement destinations, to be kept in the ambit of the Incubation Centre.
- Outreach programs needed to be documented appropriately.
- It was noted that among the faculty members, specializations on HR, Finance/Accounts were absent, and that Guest faculties were employed to address the concern.
- More emphasis was recommended on experiential learning as part of the NEP 2020 target.

### **Department of Law**

- It was observed by the members of the Audit team that records were not properly maintained by the department.

### **Department of Journalism and Mass Communication**

- The faculty members seemed to be completely unprepared to face the Audit team members, with no effort whatsoever to compensate for the lack.

### **Department of Education**

- The department has maintained a record of student profile with a clear mechanism of identification of slow and advanced learners through an educational psychology laboratory.
- It was advised that special additional value be given to advanced learners.
- The department's contribution to the NSS through volunteers may be increased.
- Emphasis to be added to corporate contribution
- Contribution to women's literacy may be recorded by the department
- Coordination may be made with the Department of Psychology
- Student exposure/progression details be maintained with proper documentation of employment details

- Collaboration with other B.Ed. colleges in the state may be initiated through M.O.U.s.

#### **Department of Economics**

- It was advised that collaborations may be made with institutions like NABARD, SHGs, and RRDs
- Emphasis may be given to promotion of SHGs in Microfinance
- Extension programs may be initiated further with the view to actualizing the NEP 2020 target.
- It was advised that the subject be taught with application-based methods, going beyond the confines of the department.
- Coordination may be sought between the departments of Education, Economics and Rural Studies and a model-village may be practically envisioned and developed.

#### **Department of Fine Arts**

- Academic and research progress was satisfactory
- More emphasis be given to facilities offered to students to pursue their creative endeavors.

#### **Department of Commerce**

- It was noted that despite satisfactory academic progress, very little had been achieved in the domain of placement and consultancy
- No significant Extension activity was noted.
- Paucity of research activity was noted.
- Mentor-mentee data was not properly documented with no data on student progression.

#### **Department of Linguistics and Tribal Languages**

- Academic and research progress was satisfactory, considering that the department was set up in 2016.
- More emphasis may be laid on extension activities by the departmental faculty members.

#### **Department of Kokborok**

- Academic and research activities were found to be satisfactory
- Publications were noted as significant

#### **Department of Music and Performing Arts**

- It was advised that '*tabla*' courses be introduced separately.
- Folk dances may be encouraged by the department.
- It was advised that the department carry out extension activities through formation of its own musical groups.
- Professional work in the larger social spectrum may be extended.

#### **Department of Sociology**

- Departmental records need to be arranged systematically
- COVID period activity needs to be highlighted



- The department should try to contribute more, taking initiatives for social interventions.

#### Department of Psychology

- The department was appreciated for the contribution in terms of providing counseling service during COVID period.
- Internship details need to be maintained properly and the department was advised to introduce courses which can improve the employment opportunities.
- It was advised to the department to adopt few schools and conduct departmental activities and take up interventions which can have social impact.

#### Department of Archeology

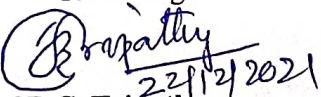
- Being a new department, there is a requirement to take several initiatives including appointment of regular employee.

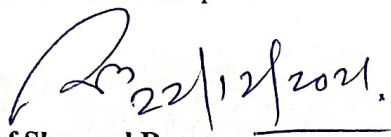
#### Department of Rural Studies


- The department is mandated for taking up multidisciplinary initiatives and was found to be doing good in terms of teaching and other associated activities.
- The department was advised to take outreach programs seriously and make regular interventions with proper planning so that the output becomes visible.
- There should be policy level recommendations coming out of the research work and ground level interventions.

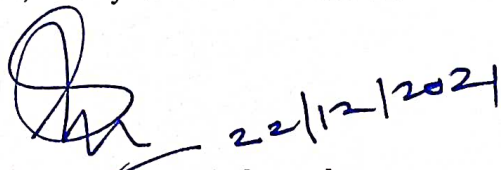
#### Women's Study Centre

- It was advised that add-on courses be offered by the Centre to students from other interdisciplinary programs.
- Value added courses also may be offered by the Centre for students of all departments in the university.
- Out-of-government support may be sought to carry out a women's entrepreneurship program, in collaboration with institutions of national importance like the EDI Gandhinagar.

  
**Prof B.C. Tripathy**  
 Director, IQAC, Tripura University

  
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