

# **INTERNAL QUALITY ASSURANCE CELL**

## **External Academic Audit 2020**

The External Academic Audit of all the academic departments was conducted online from 19<sup>th</sup> October 2020 to 22<sup>nd</sup> October 2020. The following committee was constituted for the online academic audit of the departments:

1. Hon'ble Vice Chancellor – Chairperson
2. External Experts
3. Dean In-charge Academics
4. Dean/Associate Dean of the Concerned School
5. Director IQAC – Convener

Experts' suggestions were taken during the online External Academic Audit 2020. The summarised report of the suggestions is given below:

### **1. Department of Zoology**

- The department was advised to make a proposal for the Animal house.
- Experts suggested to set up cell culture facility
- It was suggested to encourage students for online classes using the various MHRD/UGC/INFLIBNET platforms.
- More visiting faculty should be invited
- The department was advised to explore consultancy projects.
- Academic calendar of the department should be prepared.
- Activities during exchange programmes need to be mentioned.
- Online workshops are to be organised.
- Salary packages of students placed are to be mentioned.

### **2. Department of Applied Agriculture**

- The department was advised to prepare academic calendar excluding summer internship and it should be uploaded on university website.
- Salary details of the employed students are to be mentioned.
- To Motivate students to become organic farming champions with the help of faculty.
- It was advised to prepare questionnaire for not opting the innovative practices for paddy stubble management by the local farmers of the region. Also, to evaluate the reasons as to why the farmers want to stick to the traditional practice of stubble burning in Punjab, including Bathinda (University location). Explore the possibilities of converting decompose/waste to manure.
- Academic calendar needs to be prepared
- Participation in lectures, seminars etc should be increased.
- Workshops/training programmes are to be conducted
- The department was advised to explore consultancy projects.
- Analysis of feedback is required.

### **3. Department of Biochemistry**

- The expert suggested that students admitted to Ph.D. programmes should come under students' progression in place of placement.
- Academic Calendar should be prepared by the department.
- Contacts hour for PhD supervision should not be included as workload
- Record of mentor-mentee meetings should be there.
- NSS and Cultural activities of students should be provided in detail.
- Focus on knowledge-based consultancy by the department must be given.
- Groups of faculties working on similar research area for joint grant applications should be developed
- Focus on faculty exchange program with Indian/international universities/institutions must be taken into consideration
- Academic calendar needs to be prepared
- More focus on attending lectures/ seminars etc. should be given.

### **4. Department of Microbiology**

- The mentor-mentee meetings should be frequent and should be recorded.
- As the demand ratio for the Microbiology programme is very high so the number of seats should be increased.
- Focus of the curriculum should be more into molecular microbiology, role of microbes in drug designing and pharmaceuticals.
- It was advised that strong research is the most important component of department considering the COVID-19 condition, the Department of Microbiology should focus more on the recent trends.
- The consultancy activities should be initiated.
- Faculty exchange programmes are to be arranged.

### **5. Department of Chemistry**

- The department is having shortage of laboratory space and other necessary equipment for the practical work
- There should be active participation of the faculty in the national and international conferences/seminars
- Workshops/ training programmes need to be conducted
- The consultancy activities should be initiated.
- Flexibility in curriculum is to be modified.
- New courses added are to be mentioned.

### **6. Department of Computational Sciences**

- The external member has suggested that in view of heavy teaching load for individual faculty members, the department can propose a common first year (1<sup>st</sup> semester and 2<sup>nd</sup> semester) curriculum for all three M.Sc. Programme, and the second year will be dedicated for individual M.Sc. Specialization. In that way, the department can

reduce the workload for individual faculty members, and the mentioned way can strengthen the M.Sc. Programme.

- The external member suggested to work on the departmental research output.
- Academic calendar needs to be prepared

#### **7. Department of Mathematics and Statistics**

- The Expert appreciated the teaching and research performance of the department. Department will try to strengthen the standard in the near future.
- The Expert also appreciated the enrolment of students in higher educational institutes for Ph.D. Our students have got admissions in reputed higher educational institutes like IITs, NITs, and Central Universities etc.
- Expert also congratulated the faculty members for the placement of students at good positions in various Govt. sectors and MNCs.
- Expert has suggested introducing new courses related to applications of Mathematics and Statistics in various fields. To incorporate expert's suggestions, department will plan to offer new PG courses in the areas like Pure Mathematics, Applied Mathematics, Data Science (in Statistics) in the near future.
- Faculty exchange programmes are to be arranged.
- The consultancy activities should be initiated.
- The Department should initiate work for community

#### **8. Department of Physics**

- The committee appreciated the current status of the curriculum of the department and suggested to work out the feasibility of introducing a couple of courses of applied physics.
- The committee suggested to pursue the FIST program, as a future joint endeavor, to improve the existing academic infrastructure of the department.
- Faculty exchange programmes are to be arranged.
- More ICT resources are to be used
- More focus on attending lectures/ seminars etc should be given.
- Workshops/ training programmes need to be conducted
- The consultancy activities should be initiated.
- The Department should initiate work for community

#### **9. Department of Botany**

- The department was asked to submit detailed academic calendar of the department
- It was suggested to elaborate Future plan of the department
- Activities are to be mentioned under MOUs signed.
- The consultancy activities should be initiated
- Analysis of feedback is required
- Flexibility in the curriculum needs to be mentioned

- List of Participation of students in NSS/Cultural activities are to be submitted

#### **10. Department of Pharmaceutical Sciences and Natural Products**

- Frequency of guests/invited lectures needs to be increased.
- Incubation centre at University level may be opened.
- IPR awareness amongst pharmacy students to be heightened.
- Consultancy services at department level need to be enhanced.
- Social extension activities need to be pushed up at department level.
- Placement of the students need to be strengthened further.
- Interactions of mentor-mentee need to be enhanced.
- Teaching load is too high. The issue would be resolved by providing three faculty members against vacant posts.
- Teachers are encouraged to join online refresher programs (for their CAS promotion) through ARPIT (Annual Refresher Programme in Teaching), Ministry of Education.
- Under the faculty exchange program and visiting faculty/guest faculty, a list needs to be prepared.
- More MOUs need to be signed.
- Placement to be strengthened further.
- New programs (B. Pharmacy and M. Pharmacy) can be started with the support of allied departments.
- Ph.D. students with university fellowship may be provided to the department.

#### **11. Department of Pharmacology**

- Department academic calendar needs to be prepared.
- They were asked to Re-calculate the load of 2<sup>nd</sup> Sem.
- New faculty should attend orientation/refresher courses like ARPIT program.
- MoU at department level should be signed
- Emphasis on students' placement is to be given.
- They were advised to prepare proposal for Animal House.
- Collaboration with national and international organization is to be initiated
- They should develop in-house apparatus for behavioural Pharmacology.

#### **12. Department of Human Genetics & Molecular Medicine**

- Academic calendar of the Department needs to be uploaded on the University website.
- The department was advised to look for faculty exchange programmes.
- Schedule and attendance of mentor-mentee meetings must be recorded
- A panel of visiting professors must be submitted. Professors in the panel must be from Indian Universities/Institutes and have

significant achievements in the field of Human Genetics and Molecular Medicine.

- One-page report and media reports on National Cancer day event organised by Dr. Sabyasachi Senapati must be submitted to IQAC.
- Employment status of the students needs to be elaborated. The salary package needs to be added.
- Community involvement by the department needs to be elaborated. When, where, and how many people get benefited by the services need to be emphasized.
- Department must do substantial research on rare human diseases and establish facilities and provide training.
- Plant polyploidy and their use in agriculture could be explored by the department.
- The Department must engage Industries for innovation, knowledge sharing, and product development.
- Analysis of the feedback should be modified

### **13. Department of Environment Science and Technology**

- To upload the academic calendar on website with mentor mentee meeting schedule
- To initiate renewal of MoU with Punjab Remote Sensing Centre (PRSC), Ludhiana
- To explore for common GIS laboratory for the school of Environment and Earth Sciences
- To initiate process for starting of new courses for the next academic session like:
  - PG-Diploma in Remote Sensing and GIS in collaboration with PRSC
  - Explore for Innovative Program M.Tech. programmes like Environmental Engineering/ Green technology/ green architecture etc.
- To focus more on working on local environmental issues like groundwater pollution and biomass burning.
- To organise Expert lectures from the list given for Adjunct/Visiting/experts
- To explore MoU with industries

### **14. Department of Geography**

- To conduct mentor mentee meeting online and submit a report
- To develop a virtual lab for Geography
- To develop an advanced cartographic lab for Geography
- Academic Calendar should be prepared.
- Adjunct/visiting faculty in the department should be engaged.
- Workshops or training programmes should be organized.
- The department should organize expert lectures, seminar, workshops, conferences etc. in the department.
- Explore the possibilities of signing of MOU with other Universities/ institutions.

- Engagement with the community needs to be worked out and innovative practices be enhanced.

#### **15. Department of Geology**

- Revamp of syllabus in every three years
- Organising weekly interaction/seminar among M.Sc. students, research scholars and faculty to discuss recent trends in the field of geoscience.
- To highlight the high demand ratio of students and the programs (M.Sc. and PhD) as the strength of the department.
- Academic Calendar should be prepared.
- Explore the possibilities of signing of MOU with other Universities/ institutions.
- The consultancy activities should be initiated

#### **16. Department of Law**

- List of mentor -mentees is to be submitted
- Adjunct/visiting faculty in the department should be engaged.
- Faculty exchange programmes are to be conducted.
- Lectures/seminars/workshops should be conducted.
- Focus on consultancy projects is required.
- Analysis of feedback of curriculum needs to be done.
- New programmes/ courses added are to be modified
- Analysis of feedback is required
- Innovative practices are to be mentioned
- Involvement with community needs to be initiated

#### **17. Department of Psychology**

- To form a cluster of courses to ensure various specializations for students.
- Faculty members are to be engaged in research projects and publications at national and international levels.
- The department need to engage in inter-university interactions as well as faculties from other universities.
- To take guidance and support from Dean and other senior faculty members on a regular basis
- To upload academic calendar on university website.
- credit allocation of courses needs to be modified
- Ensure participation of students in NSS activities
- Submit the proposals for future plans for starting diploma programs
- Adjunct/visiting faculty in the department should be engaged.
- Faculty exchange programmes are to be conducted.
- Lectures/seminars/workshops should be conducted.
- Focus on consultancy projects is required.

#### **18. Department of South & Central Asian Studies**

- Nomenclature of the Department with respect to programme/s is to be justified.

- Projects related to department programmes can be taken up with National Human Rights Commission.
- ICSSR Research Survey and Exploration: Political Science (In 4 Volumes), OUP, 2013 is to be purchased for the Department.
- Interactions with the experts are to be enhanced for seminars, lectures, workshops etc.
- Mentor Mentees Meeting is to be conducted frequently and incorporated in the Academic Calendar. Record is to be maintained
- How to create creativity among the students, is to be discussed with the faculty members

**19. Department of Mass Communication and Media Studies**

- Details of students placed need to be Academic calendar needs to be prepared
- Details of students involved in different activities need to be given
- Practicals like two-page newsletter or audio-video capsules should be started
- Good research publications should be made
- Introduction of courses like Hindi Journalism should be explored
- Adjunct/visiting faculty in the department should be engaged.
- Faculty exchange programmes are to be conducted.
- Lectures/seminars/workshops should be conducted.
- Focus on consultancy projects is required.

**20. Department of Library and Information Science**

- Faculty exchange programmes are to be conducted.
- Lectures/seminars/workshops should be conducted.
- Focus on consultancy projects is required.

**21. Department of Financial Administration**

- Placement efforts need to be further strengthened by the Department. Complete Details on Salary Package, Job Profile etc. need to be mentioned.
- Rather than showing compiled total number of students' participation in NSS or other events, record of event wise student participation must be maintained.
- Schedule of Mentor Mentee Interaction must be incorporated in academic calendar of Department.
- Faculty members are suggested to maintain daily diary for minute record of all activities performed by them.
- It is suggested to publish Department Newsletter by including all faculty, student activities, events and achievements.
- Department needs to enhance social responsibility (community development) activities with focus on protection of moral values among students.
- In case of courses with high failure rate, additional inputs may be offered as non-credited (pre-requisite) workshop course.

- It is suggested to strengthen the employability focus in M.Com. Programme Curriculum.
- Efforts must be enhanced to synchronize the curriculum with global standards.

## **22. Department of Economic Studies**

- More Number of workshops are required to be organized in the Department.
- There is need to nurture the creativity among the students with some other initiatives.
- Social Responsibility activities in the department are required to be conducted on urgent basis.
- The daily dairy maintenance regarding their work activities by the faculty can be initiated for the smooth conduct of the department.
- The placement must be bifurcated with various jobs like involvement for higher education, private jobs and running the business.

## **23. Department of History**

- Academic calendar needs to be prepared
- Record of mentor-mentees meetings is to be maintained.
- More Number of workshops are required to be organized in the Department.
- There is need to nurture the creativity among the students with some other initiatives.
- Focus on consultancy projects is required.
- Analysis of feedback of curriculum needs to be done
- To explore MoU opportunities
- Modify the data of placement by adding pay packages of students
- The department should work for community

## **24. Department of Sociology**

- Department should incorporate meeting schedule of mentee and mentors in its academic calendar.
- The department should provide data of feedback received by students and provide details regarding action taken on feedback.
- The department should devise mechanism to engage with society at large beyond the campus.
- The Department should devise mechanism for innovative practices in pedagogy
- The department should focus on placement of students.

## **25. Department of English**

- To Modify syllabus to make it more employment oriented
- To Include new courses in syllabus for other departments
- To Include New Literatures in syllabus
- Adjunct/visiting faculty in the department should be engaged.
- Faculty exchange programmes are to be conducted.
- Lectures/seminars/workshops should be conducted.



- Focus on consultancy projects is required.
- The department has been suggested to start different innovative practices

## 26. Department of Hindi

- To make a schedule for MA Hindi students to use language lab.
- Use literary creativity dimensions to inculcate creativity among the students.
- To motivate students to go to the nearby villages and schools for social activities.
- Add the Hindi Literature available in the script other than Devanagari (Gurbani, Bhattwani, Dakini, Urdu etc.) in the curriculum of MA Hindi.
- Add the Literature of Sapt Sindhu area (Hindi literature available in the various scripts in the area of Baluchistan, Khaibar Pakhtuwana, Gilgit balistan, Kashmir, Sindh etc) in the curriculum of MA Hindi.
- Add the Hindi Literature written in the Non Hindi area in the curriculum of MA Hindi.
- Faculty exchange programmes are to be conducted.
- Lectures/seminars/workshops should be conducted.
- Focus on consultancy projects is required.
- The department has been suggested to start different innovative practices
- To start a bi lingual journal
- The department is advised to work for community

## 27. Department of Punjabi

- Mentor-mentee meetings should be properly planned and scheduled in the academic calendar and proper records should be kept.
- Issue of purchase of old/classic books should be submitted in writing.
- Efforts should be made to increase admissions by solving issues of classroom, time-table, books, lab etc.
- Job details of students shown in placement data should be comprehensive and data of students conducting Ph.D. research at other institutions should be shown separately under progression.
- Teaching of Punjabi/Spoken Punjabi course for out of state candidates should be held preferably through online mode in the evening hours.
- Language lab should be utilized to the maximum capacity and required software should be purchased/installed.
- Efforts should be made to transliterate Shahmukhi texts to Gurmukhi.
- Efforts should be made to start a research journal of Punjabi or in collaboration with Hindi department.
- Efforts should be made to incorporate Bhatt Bani in the courses of medieval Punjabi literature.
- Faculty exchange programmes are to be initiated

- MOU with other institutions are to be explored

**28. Department of Education**

- Appointment of Every Faculty as a Mentor for DIETs, Primary Teacher Training Institutions, CTEs, IASEs.
- Placement service needs to be formalized by constituting a Departmental Level Placement Cell.
- Attachment of Every M.Ed. student with a Primary/Upper Primary or Secondary School etc., and he/she may be asked to submit the progress report for each semester of the various activities/programmes /initiatives/ innovations.

**29. Department of Physical Education**

- Mentor-mentee meetings should be properly planned and scheduled in the academic calendar and proper records should be kept.
- Faculty exchange programmes are to be initiated
- MOU with other institutions are to be explored
- Lab facilities are to be created
- Focus on consultancy projects is required
- The department has been suggested to start different innovative practices
- The department should devise mechanism to engage with society at large beyond the campus.

**30. Department of Computer Science and Technology**

- Mentor-mentee meetings should be properly planned and scheduled in the academic calendar and proper records should be kept.
- Faculty exchange programmes are to be initiated
- MOU with other institutions are to be explored
- Lab facilities are to be created
- Focus on consultancy projects is required
- The department has been suggested to start different innovative practices
- The department should devise mechanism to engage with society at large beyond the campus.
- Adjunct/visiting faculty in the department should be engaged.
- Thrust areas need to be revisited
- Workload of faculty is to be recalculated
- Specific dated are to be mentioned in Academic calendar
- The department is advised to attend Conference on Big data

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Prof. S. K. Bawa  
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Hon'ble Vice Chancellor