

DULIAJAN COLLEGE

PERFORMANCE APPRAISAL REPORT : : YEAR 2020-2021

(To be submitted at the end of each Academic year)

SELF-APPRAISAL

A. General information

- I. Name: DR. POPPY HAZARIKA
- II. Designation: ASSISTANT PROFESSOR
- III. Department: PHYSICS
- IV. Area of specialization: CONDENSED MATTER PHYSICS
- V. Honours conferred: PHYSICS
- VI. Leave availed:

C.L	Earned	Commuted	Any Other
05	13	-----	14

B. Teaching

a) Class Taught:

Class	Periods		
	Assigned per week (L/T/P*)	Taught in the year (L/T/P*)	Steps taken to balance out periods missed during absence on leave
TDC (H)	Odd semester: L- 11, T- 4, P-6 Even semester: L- 8, T- Nil, P-Nil	Odd semester: L- 132, T-48, P- 72 Even semester: L- 47, P-Nil (No offline classes)	To be taken extra classes or adjusted in the time kept for revision, questions paper discussion, etc
TDC (N H)	Odd semester: L-Nil, T- Nil, P- 2 Even semester: L-2, T- Nil, P- Nil	Odd semester: L- 23, P- 30 Even semester: L- 12, P- Nil (No offline classes)	do
Add-on- course	Not applicable	Not applicable	Not applicable

*L= Lecture T= Tutorial P= Practical

b) Details of Teaching plan, Synopsis of lecture, reading and list supplied to students:

(use separate sheets, if necessary) : *Separate Sheets Attached For Teaching Plan*

c) Participation in:

- i. Board/Council/University Evaluation: *B.Sc 5th Semester Backlog Examination (Non-CBCS), Paper-PHYM-504.*

- ii. Internal Evaluation:
 1. Internal evaluation of theory and practical papers of the department
 2. Appointed as Internal Examiner of B.SC 2nd Semester Examination 2020 at Duliajan College (Practical, General))
 3. Appointed as Internal Examiner of B.SC 4th Semester Examination 2020 at Duliajan College (Practical, Major)
- iii. Paper setting: B.Sc 5th Semester Backlog Examination(Non-CBCS), Paper-PHYM-504
- iv. Home Assignment Assessment: Assessment of home assignments/projects of the concerned papers of the department of Physics
- v. Conduct of Examination as OC, AOC, Invigilator: Invigilator in BSc 6th semester Final examination 2020 (online).
(Put a tick mark)
- vi. Seminar/Conferences organized: Departmental seminars organized among students of the department
- vii. Audio visual aids/ICT used: Used Blackboard, Models, Visualisation softwares, powerpoint presentations, links for online videos (e.g., youtube links), Ebooks.

C. Innovation/Contribution in Teaching

- a. Design of Curriculum: Nil
- b. Teaching method: Use of visualization software, ICT tools, NPTEL links, Ebooks
- c. Laboratory Experiments: Departmental manual prepared for new CBCS practical instruments.
- d. Evaluation methods: Nil
- e. Preparation of resource material (i.e., books, reading materials, Laboratory manuals etc.):
Reading materials, ppts explaining topics from syllabus for the students and laboratory manuals for smooth conduct of the laboratory experiments of both degree and higher secondary curriculum.
- f. Remedial teaching and student counseling: Remedial classes for the weaker section of students as well as counseling for needy students were carried out.
- g. Involvement in project work: Nil
- h. Any other: Departmental visits to library were carried out as a part of induction program for each semester. Extra classes taken for the complete class or particular students whenever necessary, frequent class tests conducted for assessing the understanding of students

D. Participation in professional Competence

- a. Refresher/ Orientation Course: 1. UGC-HRDC sponsored Refresher Course (Online) in Natural Sciences held from 15/9/2020 to 28/9/2020 organized by Goa University.
2. Online two week interdisciplinary refresher course on "Research Methodology and Data Analysis" from 17-31 May, 2021 organized by TLC, Ramanujan College, University of Delhi.

- b. Workshop/Conference: Presented a paper titled "Lateral density distribution of Cherenkov in EASs parameterized as function of Primary energy" in International e-Poster Conference on "Advances in Physics and Applications (APA-2020)" organized by Department of Physics, Duliajan College and IQAC, Duliajan College.
- c. Seminar/Symposia: Nil
- d. M. Phil/Ph.D.: Ph.D awarded on 29/4/2020 by Dibrugarh University on the thesis titled " A Study on Cherenkov Photons in Extensive Air Showers and An Analysis of the Hagar Telescope Data for TeV Gamma-Rays Emission from Few Astrophysical Sources "
- e. Any other:
1. **Introductory Course on Astronomy and Astrophysics** held online from 27th January to 8th April, 2021 organized by TLC of IUCAA and IUCAA centre for Astronomy Research and Development, Tezpur University.
 2. One week Faculty Development Program on 'Python 3.4.3' from 27 August to 2nd september 2021 organized by Barnagar College.
 3. Online Course "**Introduction to optical and infrared interferometry**" organized by TLC, at IUCAA from 25th July to 10th October 2020.

E. Research Contribution

(use separate sheet, if necessary)

- a. M.Phil topic of Dissertation: NA
- f. Ph.D. topic of Research: Ph.D awarded on 29/4/2020 by Dibrugarh University on the thesis titled " A Study on Cherenkov Photons in Extensive Air Showers and An Analysis of the Hagar Telescope Data for TeV Gamma-Rays Emission from Few Astrophysical Sources "
- b. Research papers/Article published: Nil

Title	Name of journal with ISSN No	year

- c. Books published (academic/ Non-academic):

Title	Co Author (If any)	Publisher with ISBN No	year
1. Edited book published titled "Advances in Physics and Applications"	Dr. Nilima Gogoi	Publisher: Duliajan College ISBN: 978-93-91953-06-5	2021
2. Book Chapter Titled: Lateral density distribution of Cherenkov in EASs		Publisher: Duliajan College ISBN: 978-93-91953-06-5	2021

parameterized as function of Primary energy in the book "Advances in Physics and Applications			
3. Authored a book "Thermal Physics (Sem III)" as per CBCS Curriculum.	Dr. K. K. Pathak	Vishal Publishing Co. ISBN:978-93-89292-73-2	2021

d. Membership of professional bodies, Editorship of journals, etc.:

ASSAM SCIENCE SOCIETY (MEMBER); PHYSICS ACADEMY OF NORTH EAST (MEMBER); ACTA.

e. Minor/Major research projects: *Nil*

Title	Funding agency	Duration
NIL		

F. Extension/ Community services

a. Contribution to Community work: *Nil*

b. Health awareness: *Nil*

c. Environment awareness: *Actively participated in organizing a slogan writing competition for the students of B.Sc. (2nd, 4th, and 6th semesters) on the topic 'Assam floods: an environmental catastrophe, on occasion of Environment day 2021*

d. Adult literacy mission: *Nil*

e. Continuing Education: 1. *Convener of online Webinar "Quantum Evolution" organized by Department of Physics on 20/07/2020;*

2. *Joint Convener for organizing the One week lecture series in Physics and International e-Poster conference on "Advances in Physics and Applications (APA 2020) held from 23/11/2020 to 28/11/2020, organized by Department of Physics, Duliajan College.*

3. *In-charge of Automatic weather station.*

f. Disaster relief: *Nil*

g. Family welfare: *Nil*

h. Positions held/ leadership in organizations linked with Extension work and NSS, NC, any other similar activity: *Nil*

- i. Any other: : *Actively participated in organizing an essay competition for the students of B.Sc. (1st, 3rd and 5th semesters) and higher secondary (1st and 2nd year) on the topic 'Physics behind superstitions', on occasion of National Science day 2021*

G. Participation in Corporate life

(Use separate sheet, if necessary)

- a. Membership of college committees: *Duliajan College Teachers Unit (DCTU), Women's cell, Welfare fund, Duliajan College Science Council (DCSC), Member of Criterion IV- 'Infrastructure and Learning Resources' of AQAR of IQAC Duliajan College, Member of Academic Committee, Member of Faculty Development Cell, Convener of Research and Innovation Cell*
- b. Membership of Professional Bodies:
(State/National/International): *Assam Science society, Assam College Teachers' Association (ACTA), Physics Academy of North-East (PANE)*
- c. Inter-departmental Activities: *Invigilator in Final examinations*
- d. Inter-disciplinary activities: *Invigilator in End semester/final examinations.*
- e. Co-curricular Activities: : *Actively participated in conducting competitions organized by department among the B.Sc. and higher secondary students on various occasions*
- f. Enrichment of campus life:
Games and Sports: Nil
Literary/ Cultural Activities:
1. Convener of online Webinar "Quantum Evolution" organized by Department of Physics on 20/07/2020;
2. Joint Convener for organizing the One week lecture series in Physics and International e-Poster conference on "Advances in Physics and Applications (APA 2020) held from 23/11/2020 to 28/11/2020, organized by Department of Physics, Duliajan College.
3. Actively participated in organizing an essay competition for the students of B.Sc. (1st, 3rd and 5th semesters) and higher secondary (1st and 2nd year) on the topic 'Physics behind superstitions', on occasion of National Science day 2021.
Hostel: Nil
- g. Student welfare & Discipline: Nil

H. Assessment

- a. Steps taken for evaluation of course programs taught

(use separate sheet, if necessary)

Interaction through question/answer sessions, assignments, preparation of notes and their assessment, sudden/ pre-announced class tests and sessional examinations, evaluation through discussion on applicability

of topics discussed in class in the laboratory (wherever possible), organizing presentations and group discussions on various topics among students and assessing accordingly, etc

I. General Data

State a brief assessment of performance indicating

a. Achievements: Personally the academic session 2020 to 2021 has been a great one. My book "Thermal Physics"(Sem III) as per CBCS curriculum was published. Then I had co-edited another research book "Advances in Physics and Applications". These were the highlights of my professional work this academic year. Use of various ICT tools, ppts, ebooks, various online websites increased the interest of the students in the curriculum in terms of the wide range of access they had towards learning resources. These techniques helped in easily adapting the new CBCS course with the older non-CBCS course. The efforts were visible in notes of the students which were asked to prepare. Departmental evaluation through tests/quizzes were also found satisfactory. Together with these the students also had good participation in extra-curricular activities furthering their overall personality growth. The extra classes taken for the weaker students helped them in better understanding of the subject as well as improved their communication skills.

b. Difficulties found:

- Better laboratory facility and space is the need of the hour.
- Improvement in classroom infrastructure/facilities and better internet connectivity is important for better use of ICT tools.

c. Suggestion for improvement : Improvement in classroom and laboratory infrastructure/facilities and better internet connectivity is necessary for better use of ICT tools.

(Use separate sheet, if necessary)

Poppy Hazarika

P. Hazarika

(Signature of the teacher)

Date: 10/11/2020

Verification of Factual Data

- A. General information : Correct/ ~~Not as per record~~
- B. Teaching : Verified ✓
- C. Innovation/ Contribution in teaching : Verified ✓

- D. Professional Competence : Verified ✓
- E. Research Contribution : Verified ✓
- F. Extension/Community service : Verified ✓
- G. Corporate life : Verified ✓

Subh.
20/11/2021

(Sign. of the person authorized by the college authority with date)

Joint Co-Ordinator
IQAC, DULIAJAN COLLEGE