



Loyola College, Kunkuri
Kunkuri-496225, Jashpur, Chhattisgarh

Annual Report of Physics Department 2019-2020

Department of Physics:

Department of Physics in “Loyola College Kunkuri” was established in 2005 with an ambition to pursue high level of teaching theory, practical and research. Presently the department supports undergraduate program of the institute. This department has well-equipped and spacious Lab. It has excellent infrastructure.



Vision:

1. To empower students through quality education in Physics.
2. To establish a platform for creation and distribution of knowledge through teaching and research in Physics at various levels.
3. To create a scientific society which encourages logical thinking.

Mission:

1. To impart in depth knowledge of physics.
2. To develop capability to relate and use the acquired knowledge of physics in real life.
3. To encourage academic excellence.
4. To develop attitude for life time learning.
5. To orient students towards research.

The department has qualified, experienced, energetic faculty members who are passionate about teaching profession. In order to develop interest about physics in students mind and to motivate them to gain the knowledge, we conducted various activities in every academic year.

NAME OF DEPARTMENT: **PHYSICS**

NAME OF INCHARGE: Miss ASHA CHAUHAN

NAME OF OTHER MEMBERS: Mr. JASWANT KUMAR

NON-TEACHING STAFF: Mr. NAVEEN TOPPO
(Lab-assistant)

1. Activities conducted:

S. No.	Date	Activity	Details
1.	First July 2019	Welcome of first year Students.	Orientation lecture by Principal Dr. Fr. Telesphor Lakra and Rector of Loyola house kunkuri Dr. Fr.Panka Toppo, S.J.
2.	Progressive form July to January	Unit wise test and CET.	The department conducted <i>unit wise test</i> for all year students.
3.	Progressive from September to December	Seminar	The department conducted <i>topic wise seminar</i> for all students in presence of teaching staff and guest.
4.	December	Mini-Project and poster model	All year students of B.Sc. Computer science prepared their project like <i>GATE, metal detector, mini hydraulic</i>

			<i>pressure machine, posters-like big-bang theory, nuclear reactor etc.</i>
5.	29 th of December 2019	Educational Tour	The department went to “ <i>Mayali Dam</i> ” as educational tour with B.Sc. computer science students for physics and environment purpose.
6.	January	Model exam	Department organized model exam for all year students for their <i>good performance in main annual exam.</i>
7.	February	Remedial Classes	The department organized remedial classes each year in order to <i>build up maths, numerical of physics, reading-writing and English skills.</i>

2. Workshop/conference Attended:

1. Miss Asha Chauhan attended one day National Webinar on “*Frontiers of Scanning Probe Microscopy*” organized by Department of Applied Physics, Jabalpur Engineering College, Jabalpur, Madhya Pradesh under TEQIP-III, dated on 19th September 2019.

2. Miss Asha Chauhan participated in “*First National Conference on Advanced Materials and Applications (NCAMA-2020)*” from 28/09/2020 to 29/09/2020 organized by *National Institute of Technology, Raipur, Chhattisgarh.*

3. Miss Asha Chauhan participated in “*One Week Online Short-Term Training Program on Emerging Tools and Technologies in Material Science and Engineering*” from 21/09/2020 to 25/09/2020 organized

by Department of Applied Physics, Jabalpur Engineering College, Jabalpur.

4. Students Achievement:

1. Mr. Sunit Bara of B.Sc. C.S. Second year student participated in NSS Republic day parade camp 2020 New Delhi from 01/01/2020 to 31/01/2020, organized by Govt. of India, ministry of youth affairs and sports Directorate of national service scheme, New Delhi.

2. Shagil Aabid Rayeen, Elvin Minj, Vikas Beck and Vishnu Chouhan of B.Sc. second year computer science students got the certificates in *Football tournament* held on 14/02/2020.

5. Any other Innovative practices:

1. Orientation of Faculty Memberse on Skill Development Scheme:
Dr. Fr. Telesphor Lakra (Principal) conducted an Orientation lecture on “*Skill Development Scheme*” under the guidance of Sant Gahira Guru University on 19/09/2019.

2. Development of mini project and poster model: Miss Asha Chauhan conducted a lecture on “*how your project should be related to basic principle of Physics*” on 02/12/19.

6. Faculty Profile:

S.No.	Name of Faculty	Academic Qualification	Teaching Experiences	Teaching Classes
1.	Asha Chauhan	M.Sc., SET	4	B.Sc.-I, II,III
2.	Jaswant Kumar	M.Sc.	-	B.Sc.-I, II,III
3.	Naveen Toppo	Diploma in electronics	6	Practicals

7. Degree College Course:

S. No.	Year	Course Code/Paper	Title
1.	First Year	20P/ First paper	Mechanics, Oscillations and properties of matter.
2.	First Year	20P/ Second paper	Electricity, Magnetism, Electromagnetic theory, Vector algebra
3.	Second Year	20P/ First paper	Thermodynamics, Kinetic theory and Statistical physics
4.	Second Year	20P/ Second paper	Waves, Acoustics and Optics.
5.	Third Year	20P/ First paper	Classical mechanics, Quantum Mechanics, Atomic and Molecular physics, Nuclear physics
6.	Third Year	20P/ Second paper	Solid state physics, Solid state device and Electronics, “C” language
7.	All year students	Practical	Physics practical for all year students related to their subject.

- The syllabus is design by the university according to competitive exam like NET, SET, GATE, JAM, JEST, JEE etc.
- Each paper contains five units with numericals and practicals related to the subject so the students get deep knowledge about the theory.

8. Department Highlights:

- Total no. of Faculty member: 03
- Total no. of Students in B.Sc. First C.S.: 60
- Total no. of Students in B.Sc. Second C.S.: 57
- Total no. of Students in B.Sc. Third C.S.: 27
- Well equipped spacious laboratory with sophisticated test and measuring instruments and equipments such as Spectroscope, Cathode Ray Oscilloscopes, Function Generators, Galvanometer, Dielectric, Planck's Constant, Four probe, Hall effect, Transistor, PNP diodes, Tunnel Diode etc.
- The department has well equipped separate dark room for the practicals related to the light.
- Infrastructure for practical learning and also promoting the use of ICT.

Orientation lecture by Principal Dr. Fr. Telesphor Lakra and Rector of Loyola house kunkuri Dr. Fr.Panka Toppo, S.J.



Mr. Sunit Bara of B.Sc. C.S. Second year student participated in “NSS Republic day parade camp 2020 New Delhi”, A picture of meeting with our Honorable Governor Anusuiya Uikey.



**our honorable Governor Anusuiya
Uikey**

Project and Poster model made by students of B.Sc. Second year Computer Science.



Shagil Aabid Rayeen, Elvin Minj, Vikas Beck and Vishnu Chouhan of B.Sc. second year computer science students got the certificates in *Football tournament*, this certificate they received by Principal Dr. Fr. Teleshphor Lakra.



Lecture on “Skill Development Scheme” by Principal Dr.Fr. Teleshphor Lakra.



Seminar by Ayushi Nayak on *programming in “C” Language*.



Educational Tour “*Mayali dam*” Jashpur Chhattisgarh.

