DEPARTMENT OF PHYSICS

K.A.H.M UNITY WOMEN’S COLLEGE,MANJERI

ANNUAL REPORT 2022-23

**I.Curricular Aspects**

1. Certificate Courses

|  |  |  |
| --- | --- | --- |
| **No:** | **Name of Course** | **No: of students** |
| 1 | Mathematical Formulation of Quantum Mechanics | 28 |
| 2 | Analog & Digital Electronics | 19 |

2. Faculty participation & positions in various bodies for curriculum development and assessment/evaluation

Name of Faculty : Mr. Muhammed Abdul Hakkeem C

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| **SI No:** | **Position** |
| 1 | Examiners board for University examinations(Both theory and Practical) |

Name of Faculty : Sabeer V

|  |  |
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| **SI No:** | **Position** |
| 1 | Examiners board for University examinations(Both theory and Practical) |

3. Name of Faculty : Mr. Muhammed Abdul Hakkeem C

|  |  |
| --- | --- |
| **SI No:** | **Course attended** |
| 1 | One-week Faculty Development programme on Moodle based Learning Managemnt System and Course Design conducted online by the Faculty Development Centre of KSHEC from 13th to 17th March 2023. |

Name of Faculty : Sabeer V

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| **SI No:** | **Course attended** |
| 1 | One-week Faculty Development programme on Moodle based Learning Managemnt System and Course Design conducted online by the Faculty Development Centre of KSHEC from 13th to 17th March 2023. |

**II. Teaching,Learning and Evaluation**

2. Details of ICT tools and innovative practices used and usage by each faculty of the department.

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| --- | --- | --- |
| **SI No:** | **Faculty** | **ICT tools used** |
| 1 | Mr. Muhammed Abdul Hakkeem C | Laptop,Printer, Smart TV,Smart Phone,etc |
| 2 | Mr. Sabeer V | Laptop,Printer, Smart TV,Smart Phone,etc |

5.Student Centric methods/participative learning/Problem solving/experiential learning methodologies-

Students are given opportunities for doing experiments related with theory part which they have studied in class rooms.

7.Assessment and evaluation strategy and reforms.

 Internal assessments of students are done by conducting exams, giving assignments and conducting viva. Valuation of answer papers are done after the exam and special attention is given to weak students.

8.Result and Result Analysis

B.Sc CHEMISTRY

|  |  |
| --- | --- |
| No: of students appeared | 49 |
| No: of students passed | 46 |
| No: of students with grade ‘O’ | 3 |
| No: of students with A+ grade | 21 |
| No: of students with A grade | 16 |
| No: of students with B+ grade | 6 |
| No: of students failed | 3 |

 Pass % - 93.8

B.Sc COMPUTER SCIENCE

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| --- | --- |
| No: of students appeared | 39 |
| No: of students passed | 26 |
| No: of students with A+ grade | 1 |
| No: of students with A grade | 5 |
| No: of students with B+ grade | 12 |
| No: of students with B grade | 8 |
| No: of students failed | 13 |
| Pass % - 66.7 |  |

**III.Research,Extension**

1.Seminar/Webinar/Workshops, etc

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Topic** | **Date** | **Resource person** |
| International Webinar  | 1. Exploring the Universe with Gravitational Waves.
2. Watching polaritons on the fly
 | 23.07.202202.09.2022 | Dr. Mohammed Saleem Cholayil, Post doctoral Associate at School of Physics and Astronomy, University of Minnesota, USABalasubramaniyam, Physical chemistry Department and centre for light –matter interaction , Tel Aviv University,Israel |
| Day Observation | National Energy Conservation DayNational Science Day-A talk on The life and works of CV Raman | 14.12.202228.02.2023 | Mr.Muhammed Abdul Hakkeem CAsst.Professor and Head of Physics Department |
| Workshop | 1.LED Bulb Assembling2.Troubleshooting and maintenance of Home appliances  | 30.11.202217.01.2023 | Mr.Muhammed Rafi,Head of Physics Dept, Majlis Arts & Science College, Valancheri1.Mr. Althaf2. Mr.Kiran Das , Service Engineers, Prominent,Calicut |

6.MoUs and Collaboration and activity done.

Signed one MoU with Prominent – A perfect Solution, Calicut on 10.01.2023 and a worksop on Troubleshooting and maintenance of Home appliances was conducted by faculties from Prominent to students of the college.

8. Extension/Community outreach activities

Conducted one community outreach programme.

 Students constructed LED bulbs and supplied in the nearby houses who were using less efficient lighting devices. They explained the importance of energy conservation and also the various methods of which can be taken for conserving energy.

**IV. Infrastructure and Learning Resources.**

 Facilities added to Department

1. Smart T.V
2. Laptop
3. A few laboratory equipments.

**V.Student Support and Progression**

Capacity building programs.

1. A capacity building workshop on troubleshooting and maintenance of Home Appliances was conducted.
2. Workshop on LED bulb assembling.

**VI .Governance,Leadership and Management**

2.i)Mr.Muhammed Abdul Hakkeem C attended a Refresher course

 ii)Mr.Sabeer V attended a Short Term Course in ‘Human Rights & RTI ‘ , conducted by UGC-HRDC, Kannur University from 28.10.2022 to 03.11.2022.

3.

Name of Faculty: Mr.Muhammed Abdul Hakkeem C

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| **SI No:** | **Programme** | **Organizing authority** | **Date** |
| 1 | One week Moodle based learning management system and course design | Kerala State Higher Education Council,Thiruvananthapuram | 13/03/2023 to17/03/2023 |
| 2 | One day national seminar on transformational role of NEP 2020 in Higher Education | IQAC , KAHM Unity Women’s College,Manjeri | 24/02/2023 |
| 3 | RE-BOOT Two day professional development workshop | IQAC & Governing body , IQAC , KAHM Unity Women’s College,Manjeri | 16/12/2022 to17/12/2022 |
| 4 | Hands-on training programme on LMS | IQAC , KAHM Unity Women’s College,Manjeri | 07/07/2022 |
| 5 | Training for ERP Softare | Dept. of Computer Science, , KAHM Unity Women’s College,Manjeri | 25/07/2022 |
| 6 | Training for ERP Softare | Dept. of Computer Science, , KAHM Unity Women’s College,Manjeri | 07/02/2023 |
| 7 | One day State Level Seminar on “Changing Trends in the Media” | Media Club, KAHM Unity Women’s College,Manjeri | 13/02/2023 |

Name of Faculty: Mr.Sabeer V

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| **SI No:** | **Programme** | **Organizing authority** | **Date** |
| 1 | One week Moodle based learning management system and course design | Kerala State Higher Education Council,Thiruvananthapuram | 13/03/2023 to17/03/2023 |
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**VII Institutional Values and Best Practices**

2.Day Celebrations

1.National Energy Conservation Day on 14.12.2022

2.National Science Day celebration on 28.02.2023