



## Dr. N.G.P. ARTS AND SCIENCE COLLEGE

An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore  
Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle – 3.64CGPA)  
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### Department of Medical Physics

#### Activates and Achievements - AY 2022-23

##### 1. Guest Lecture/Invited Lecture

| S. No. | Date      | Name and Designation of the Resource Person   | Topic                                  | Venue       | Beneficiary                                   |
|--------|-----------|---|--|-------------|---|
| 1      | 26-Sep-22 | Mr.S.Sankar M.Sc.,RSO<br>Medical Physicist , VPS<br>Lakeshore Hospital &<br>Research Centre, Kerala                 | Future Aspects for Medical Physics     | B-1516      | I & II M.Sc. Medical<br>Physics Students (20) |
| 2      | 17-Oct-22 | Mr. Giridharan<br>M.Sc.,MRSO<br>Chief Medical Physicist &<br>RSO, Clear Medi Radiant<br>Hospital, Mysore, Karnataka | TG-43 formalism for Brachytherapy      | Google meet | I & II M.Sc. Medical<br>Physics Students (20) |
| 3      | 11-Jan-23 | Dr. A. Saravana Kumar<br>Head-Medical Physics,<br>PSG Institute of Science &<br>Research, Coimbatore.               | Advanced Medical Imaging<br>Techniques | B-1516      | I M.Sc. Medical Physics<br>Students (10)      |
| 4      | 27-Jan-23 | Mr. A. Selvaganapathy<br>Medical Physicist<br>Health City Hospital, Grand<br>Cayman,<br>Cayman Island.              | Advances in Medical Physics            | B-1516      | I M.Sc. Medical Physics<br>Students (10)      |

|   |           |   |  |                |  |
|---|-----------|---|--|----------------|--|
| 5 | 23-Feb-23 | Ms. M. Kiruba Shiney Rajam<br>Medical Physicist<br>St. John's Medical College<br>Hospital, Bangalore.   | Challenges and Opportunities of<br>working in Medical Physics                    | Google meet    | I & II M.Sc. Medical<br>Physics Students (20)                |
| 6 | 31-Mar-23 | Dr. C. Senthamil Selvan<br>Lecturer cum Radiation Safety<br>Officer (RSO),<br>Department of Radio<br>Diagnosis,<br>Mahatma Gandhi Medical<br>College and Research Institute,<br>Puducherry. | Performance Evaluation of<br>Conventional and Digital Radiography<br>Equipments. | Google meet    | I & II M.Sc. Medical<br>Physics Students (20)                |
| 7 | 12-Apr-23 | Dr. S. Murali<br>Scientific officer-H<br>Head, -EPRS,<br>RSSD, BARC, Mumbai.  | Radiation Detectors and Emergency<br>Preparedness                                | Seminar Hall-I | Medical Physics, Physics<br>& Biochemistry Students<br>(110) |
| 8 | 25-Apr-23 | Mr.M.Midhun Kumar<br>Medical Physicist and<br>Application Specialist, Scan-<br>O-Plan systems, India  | Role of Medical Physicist in Health<br>Care                                      | Google meet    | I & II M.Sc. Medical<br>Physics Students (20)                |

## 2. Seminar / Workshop Conferences organized

| S. No. | Date      | Nature of the Event   | Number of External Participants | Title of the Event                        | Name & Designation of the Speakers  | Name & Affiliation Chair & Co-chair | Funding Agency | Total Funding |
|--------|-----------|-----------------------|---------------------------------|---|---|-------------------------------------|----------------|---------------|
| 1      | 25-Feb-23 | International Webinar | -                               | Hyperthermia in Targeted Cancer Therapies | Dr. Raghvendra A. Bohara,<br>Science Foundation Ireland (SFI)<br>Postdoctoral Fellow, | -                                   | -              | -             |

|   |           |                        |     |  |   |   |   |   |
|---|-----------|------------------------|-----|--|---|---|---|---|
|   |           |                        |     |  | National University of Ireland,<br>Galway.  |   |   |   |
| 2 | 12-Apr-23 | National<br>Conference | 200 | Emerging Trends in<br>Physical Sciences and<br>Mathematics<br>(ETPSM'23) | Dr. S. Murali<br>Scientific officer-H<br>Head, -EPRS,<br>Radiation Safety Systems and<br>Division,<br>Bhabha Atomic Research Centre,<br>Mumbai. | - | - | - |

### 3. Extension Activities

| S. No. | Date      | Nature of the extension       | Place                    | Students involved            |
|--------|-----------|-------------------------------|--------------------------|------------------------------|
| 1.     | 29-Oct-22 | Health , Hygiene & Sanitation | Sankar Samakulam Village | I M.Sc. Medical Physics (10) |
| 2.     | 11-Feb-23 | Awareness on Renewable Energy | Velliangadu Village      | I M.Sc. Medical Physics (10) |

### 4. Staff Recognitions

| S. No. | Name of the Staff | Acted As        | Name of the Programme | Date      | Venue  |
|--------|-------------------|-----------------|-----------------------|-----------|--|
| 1.     | Mr. D. Sivakumar  | Resource Person | ATAL Sponsored FDP    | 21-Nov-22 | Sri Eshwar College of Engineering                  |
| 2.     | Mr. D. Sivakumar  | Resource Person | Five Days Online FDP  | 08-May-23 | Hindustan College of Engineering and<br>Technology |

## 5. Staff Participation

| S. No. | Date                   | Name of the Faculty | Name of the Workshop/FDP/Training Programme  | College                             |
|--------|------------------------|---------------------|--|-------------------------------------|
| 1.     | 22-Jun-22 to 24-Jun-22 | Mr.D.Sivakumar      | FDP on “ Advanced Radiotherapy and Nuclear Medicine Techniques”  | KMCH, Coimbatore.                   |
| 2.     | 22-Jun-22 to 24-Jun-22 | Ms. G.Daisy         | FDP on “ Advanced Radiotherapy and Nuclear Medicine Techniques”  | KMCH, Coimbatore                    |
| 3.     | 27-Oct-22 & 28 –Oct-22 | Mrs.K.Indhumathi    | Two Days National Level FDP on “IPR, Entrepreneurship and Start-ups  | IOT Academy                         |
| 4.     | 05-Nov-22 to 07-Nov-22 | Mr.D.Sivakumar      | 43rd Annual Conference of Association of Medical Physicists in India ( AMPICON -2022)  | AIMS , New Delhi                    |
| 5.     | 08-Nov-22              | Mrs.K.Indhumathi    | National CME “AI in Medical Imaging”   | AIMS, Bathinda                      |
| 6.     | 14-Nov-22 to 18-Nov-22 | Mrs.K.Indhumathi    | International online FDP on Current Scenario in Advanced Material Research and Nanotechnology  | Rajus’ College Rajapalayam          |
| 7.     | 26-Nov-22              | Mr. D. Sivakumar    | DHR-ICMR Sponsored One Day National Level Workshop on Advanced Artificial Intelligence (AI) Methods in Breast Cancer Diagnosis and Clinical Research | Dr. N.G.P. Arts and Science College |
| 8.     | 26-Nov-22              | Mrs. K. Indhumathi  | DHR-ICMR Sponsored One Day National Level Workshop on Advanced Artificial Intelligence (AI) Methods in Breast Cancer Diagnosis and Clinical Research | Dr. N.G.P. Arts and Science College |
| 9.     | 26-Nov-22              | Mrs. G. Daisy       | DHR-ICMR Sponsored One Day National Level Workshop on Advanced Artificial Intelligence (AI) Methods in Breast Cancer Diagnosis and Clinical Research | Dr. N.G.P. Arts and Science College |
| 10.    | 8-Dec-22 to 9-Dec-22   | Mr. D. Sivakumar    | Two Days FDP on “ICT Tools and Innovative Teaching Pedagogy and Online Resources &Tools”   | IOT Academy                         |

|     |                         |                    |  |   |
|-----|-------------------------|--------------------|--|---|
| 11. | 29-Dec-22 to 30-Dec-22. | Mrs. G. Daisy      | Two Days National Level FDP on “ICT Tools and Innovative Teaching Techniques”                                    | IOT Academy   |
| 12. | 23-Jan-23 to 24-Jan-23. | Mrs. G. Daisy      | Two Days National Level FDP on “Innovative Teaching and Online Resources”  | IOT Academy   |
| 13. | 7-Feb-23 to 15-Feb-23   | Mrs. K. Indhumathi | Seven Days National Level FDP on “Teaching and Learning Process in HEI’S”  | IOT Academy   |
| 14. | 04-Mar-23               | Mr. D. Sivakumar   | One Day Workshop on” Outcome based Education”  | Dr. N.G.P. Arts and Science College in association with IPSR solutions limited. |
| 15. | 04-Mar-23               | Mrs. K. Indhumathi | One Day Workshop on” Outcome based Education”  | Dr. N.G.P. Arts and Science College in association with IPSR solutions limited. |
| 16. | 04-Mar-23               | Mrs. G. Daisy      | One Day Workshop on” Outcome based Education”  | Dr. N.G.P. Arts and Science College in association with IPSR solutions limited. |
| 17. | 12-Apr-23 to 13-Apr-23  | Mrs. K. Indhumathi | National Virtual Workshop on “Machine Learning: An Ice Breaker between the Materials Research and Data Sciences” | SSN Institutions, Chennai.  |
| 18. | 08-May-23 to 12-May-23  | Mrs. K. Indhumathi | One week FDP on “Computational modelling of materials  | Madanpalle Institute of Technology & Science, Andhra Pradesh.                   |
| 19. | 24-May-23 to 31-May-23  | Mrs. K. Indhumathi | Seven Days National Level FDP on “Advanced Teaching Skills”  | IOT Academy   |
| 20. | 29-May-23               | Mr. D. Sivakumar   | Professional Development Workshop on” Digital Creativity Skills”   | Dr. N.G.P. Arts and Science College   |
| 21. | 29-May-23               | Mrs. K. Indhumathi | Professional Development Workshop on” Digital Creativity Skills”   | Dr. N.G.P. Arts and Science College   |

|     |           |               |   |                                     |
|-----|-----------|---------------|---|-------------------------------------|
| 22. | 29-May-23 | Mrs. G. Daisy | Professional Development Workshop on " Digital Creativity Skills" | Dr. N.G.P. Arts and Science College |
|-----|-----------|---------------|---|-------------------------------------|

## 6. Students Presentation

| S.no | Date      | Name of the student | Name of the event   | Name of the title  | College                             |
|------|-----------|---------------------|---|--|-------------------------------------|
| 1    | 12-Apr-23 | L.K. Hariharasudan  | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | TG-142 Quality Assurance of High Energy Medical Linear Accelerator With KV and MV Imaging  | Dr. N.G.P. Arts and Science College |
| 2    | 12-Apr-23 | R.S. Hari Krishnan  | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Evaluation of Bremsstrahlung Radiation in High Energy Electron Path utilizing Two Ionometric Methods                               | Dr. N.G.P. Arts and Science College |
| 3    | 12-Apr-23 | R. Nihithaa         | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Installation and Commissioning of Surface Guided Radiation Therapy   | Dr. N.G.P. Arts and Science College |
| 4    | 12-Apr-23 | P. Santhosh Kumar   | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Deep Inspiration Breath Hold: Dosimetric Comparison of Different Radiotherapy Techniques Used For Left Side Chest wall Irradiation | Dr. N.G.P. Arts and Science College |
| 5    | 12-Apr-23 | S. Sindhuja         | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Quality Assurance for High Dose Rate (HDR)Brachytherapy  | Dr. N.G.P. Arts and Science College |

|    |           |                |   |   |                                     |
|----|-----------|----------------|---|---|-------------------------------------|
| 6  | 12-Apr-23 | S. Srinithi    | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Analysis of Head Leakage in High Energy Medical Linear Accelerator as per IEC Using Imatrix Phantom | Dr. N.G.P. Arts and Science College |
| 7  | 12-Apr-23 | Sudip Maity    | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Empirical Modelling of the Percent Depth Dose for Megavoltage Photon Beam                           | Dr. N.G.P. Arts and Science College |
| 8  | 12-Apr-23 | T.M.Vasanth    | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Rapid Arc QA of Varian Unique Performance Linear Accelerator using Portal Dosimetry                 | Dr. N.G.P. Arts and Science College |
| 9  | 12-Apr-23 | S. Veeramani   | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Comparison of 2D Gamma Index Using Two Detector arrays for Volumetric Modulated Arc Therapy         | Dr. N.G.P. Arts and Science College |
| 10 | 12-Apr-23 | R.P.Dhyaneswar | One day National Conference on " Emerging Trends in Physical Sciences and Mathematics " | Comparison of Manual and Automatic FFF Beam Analysis for Different Detector Measurements            | Dr. N.G.P. Arts and Science College |

## 7. Students Participation

| S. No. | Date | Name of the Students | Event | College | Inter Collegiate / Inter Departmental | Prizes won |
|--------|------|----------------------|-------|---------|---------------------------------------|------------|
|--------|------|----------------------|-------|---------|---------------------------------------|------------|

|    |                              |   |                      |  |                    |                                   |
|----|------------------------------|---|----------------------|--|--------------------|-----------------------------------|
| 1. | 05-Nov-22<br>to<br>07-Nov-22 | P. Santhosh Kumar<br>II M.Sc. Medical Physics | Quiz<br>Competition  | 43rd Annual Conference of<br>Association of Medical Physicists in<br>India (AMPICON -2022) | Inter Collegiate   | 2nd Prize<br>(3000 cash<br>Prize) |
| 2. | 12-Apr-23                    | R.P. Dhyaneshwar<br>II M.Sc. Medical Physics  | Oral<br>Presentation | Dr. N.G.P. Arts and Science College  | Inter Departmental | 1 <sup>st</sup> Prize             |

### 8. Students Counseled

| S. No. | Name of the class        | Number of Students |
|--------|--------------------------|--------------------|
| 1.     | I M.Sc. Medical Physics  | 10                 |
| 2.     | II M.Sc. Medical Physics | 10                 |