



MANGALORE UNIVERSITY
DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Ms. Karunya A S** (Register Number: 204051493106) has satisfactorily completed a project entitled “**Validation of IMRT patient specific QA using point dose measurement and planar dose measurement-a comparative study**” under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


Mr. Avin Kumar

Chief Medical Physicist & RSO
AJHRC, Mangalore


Prof. Karunakara Naregundi

Co-Ordinator
Medical Physics Division
Mangalore University

External examiners:

- 1.
- 2.



MANGALORE UNIVERSITY
DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Ms. Mahalakshmi R Naik** (Register Number: 204051493107) has satisfactorily completed a project entitled “**Dose dependency on the material components of the applicator in Brachytherapy- A dosimetric study**” under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2021-22.


Mr. Avin Kumar

Chief Medical Physicist & RSO
AJHRC, Mangalore


Prof. Karunakara Naregundi

Co-Ordinator
Medical Physics Division
Mangalore University

External examiners:

- 1.
- 2.



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CERTIFICATE

This is to certify that **Ms. Nisha K R** (Register Number: 204051493108) has satisfactorily completed a project entitled “**Validation of IMRT patient specific QA using point dose measurement and planar dose measurement-a comparative study**” under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


Mr. Avin Kumar

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AJHRC, Mangalore


Prof. Karunakara Naregundi
Co-Ordinator
Medical Physics Division
Mangalore University

External examiners:

- 1.
- 2.



MANGALORE UNIVERSITY
DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Mr. Raghottam Joshi** (Register Number: 204051493109) has satisfactorily completed a project entitled “**Radiation planning for Head and Neck cancers using 3DCRT and Rapid arc methods and ascertaining the treatment sequelae**” under the guidance of **Mr. C. Krishna**, Medical Physicist & RSO, Mangalore Institute of Oncology, Pumpwell, Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfillment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.

Mr. C. Krishna

Medical Physicist & RSO

Radiation Safety Officer

MIO, Pumpwell, Mangalore

Prof. Karunakara Naregundi

Co-Ordinator

Medical Physics Division

Mangalore University

External examiners:

- 1.
- 2.



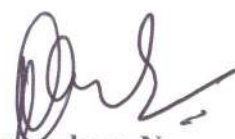
MANGALORE UNIVERSITY
DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Ms. Saiprajna S Shetty** (Register Number: 204051493110) has satisfactorily completed a project entitled **“Validation of IMRT patient specific QA using point dose measurement and planar dose measurement-a comparative study”** under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


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Medical Physics Division
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MANGALORE UNIVERSITY
DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Mr. Sampath Kumar** (Register Number: 204051493111) has satisfactorily completed a project entitled **“Formulation of Tissue Maximum Ratio for high energy photons using a Medical Electron Linear Accelerator”** under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfillment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


Mr. Avin Kumar

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Mangalore


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Mangalore University

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DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Mr. Sanjay Kumar** (Register Number: 204051493112) has satisfactorily completed a project entitled “**Comparison Of Deviation In Point Dose Verification With Ionization Chambers Of Two Different Volumes For Patient Specific QA**” under the guidance of **Mr. Krishna Chandrasekar**, Medical Physicist & RSO, Mangalore Institute of Oncology, Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.

Mr. Krishna Chandrasekar
Chief Medical Physicist & RSO
Mangalore Institute of Oncology
Mangalore

Prof. Karunakara Naregundi
Co-Ordinator
Medical Physics Division
Mangalore University

External examiners:

- 1.
- 2.



MANGALORE UNIVERSITY
DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Ms. P Sowmya** (Register Number: 204051493114) has satisfactorily completed a project entitled **“Development of a semi empirical calculation approach for the determination of Percentage Depth Dose in water for higher energy photon beams using a medical Linear Accelerator”** under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A. J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


Mr. Avin Kumar

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Mangalore


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Co-Ordinator
Medical Physics Division
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CERTIFICATE

This is to certify that **Ms. Anu Roy** (Register Number: 204051493101) has satisfactorily completed a project entitled "**Formulation of Tissue Maximum Ratio for high energy photons using a Medical Electron Linear Accelerator**" under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfillment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


Mr. Avin Kumar

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AJ Hospital and Research Centre
Mangalore


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Co-Ordinator
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External examiners:

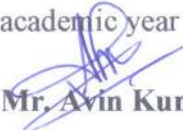
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DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Ms. Deekshitha N** (Register Number: 204051493102) has satisfactorily completed a project entitled “**A comparative study to verify the effect of the number of fields and their impact on IMRT plans for a case of Carcinoma Abdomen**” under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Center Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfillment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


Mr. Avin Kumar

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Radiation Safety Officer

AJHRC, Mangalore


Prof. Karunakara Naregundi

Co-Ordinator

Medical Physics Division

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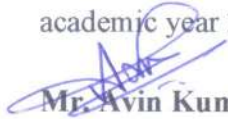
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- 2.



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CERTIFICATE

This is to certify that **Ms. Deepthi** (Register Number: 204051493103) has satisfactorily completed a project entitled **"A comparative study to verify the effect of the number of fields and their impact on IMRT plans for a case of Carcinoma Abdomen"** under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Center Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfillment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


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DEPARTMENT OF MEDICAL PHYSICS

CERTIFICATE

This is to certify that **Mr. Dhanush V S** (Register Number: 204051493104) has satisfactorily completed a project entitled **“Dose dependency on the material components of the applicator in Brachytherapy- A dosimetric study”** under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A.J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2021-22.


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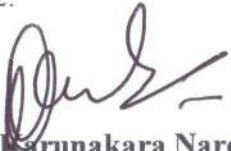
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CERTIFICATE

This is to certify that **Ms. Elizebeth Joseph** (Register Number: 204051493105) has satisfactorily completed a project entitled **"Development of a semi empirical calculation approach for the determination of Percentage Depth Dose in water for higher energy photon beams using a medical Linear Accelerator"** under the guidance of **Mr. Avin Kumar**, Chief Medical Physicist & RSO, A. J. Hospital and Research Centre Mangalore and **Prof. Karunakara Naregundi**, Coordinator Medical Physics Division, Mangalore University, in partial fulfilment of the requirements for the award of degree of Master of Science in Medical Physics by Mangalore University during the academic year 2020-22.


Mr. Avin Kumar

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A J Hospital and Research Centre
Mangalore


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