



इन्वर्टिस विश्वविद्यालय

INVERTIS
UNIVERSITY BAREILLY

बरेली, उत्तर प्रदेश, भारत

जितेन्द्र निगम

को एतद्वारा

फिजिक्स विषय में विद्या वाचस्पति

की उपाधि प्रदान करता है।

विद्या-परिषद् की अनुशंसा पर यह उपाधि,

अवधि हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर

तथा जनवरी 2023 में अपने शोध-प्रबंध

“पेशेंट स्पेसिफिक क्वालिटी अस्सुरेन्स इन आईएमआरटी/वीएमएटी यूसिंग पोर्टल डोसीमेट्रीए
आईमेट्रिक्सस 2डी एरे एंड एपिका सिस्टम इन पेल्विक कैंसर”

के सफल पक्षपोषण के उपरांत

आज 02 जनवरी, 2023 को दी गई है।

INVERTIS UNIVERSITY

BAREILLY UTTAR PRADESH, INDIA

*Upon the recommendation of the Academic Council,
the University hereby confers the degree of*

Doctor of Philosophy in Physics

Upon

Jitendra Nigam

*who has fulfilled the requirements for the degree as prescribed under the regulations
and successfully defended in January 2023, the thesis entitled:*

**“PATIENT SPECIFIC QUALITY ASSURANCE IN IMRT/ VMAT USING PORTAL
DOSIMETRY IMATRIX 2D ARRAY AND EPIQA SYSTEM IN PELVIC CANCER”**

Given this day, on January 02, 2023.

Registrar
Invertis University
Bareilly



Santosh
कुलसचिव
REGISTRAR

[Signature]
कुलपति
VICE-CHANCELLOR

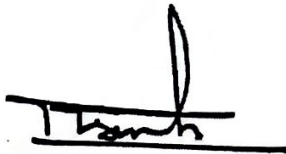
[Signature]
कुलसचिव
CHANCELLOR

CERTIFICATE

This is to certify that the thesis entitled "PATIENT SPECIFIC QUALITY ASSURANCE IN IMRT/VMAT USING PORTAL DOSIMETRY, IMATRIX 2D ARRAY AND EPIQA SYSTEM IN PELVIC CANCERS" submitted by Jitendra Nigam for the award of Degree of Doctor of Philosophy in the Faculty of Sciences of Invertis University, Bareilly is a record of authentic work carried out by him under our supervision.

The matter embodied in this thesis is the original work of the candidate and has not been submitted for the award of any other Degree or diploma.

It is further certified that he has worked with us for the required period in the Faculty of Sciences, Invertis University, Bareilly.



Dr. P. P. SINGH
PROF & DEAN
FACULTY OF SCIENCE
Invertis University
Bareilly

Dean
Faculty of Science
Invertis University, Bareilly (U.P.)



Dr. PIYUSH KUMAR
PROF & HEAD
DEPARTMENT OF RADIATION ONCOLOGY
Shri Ram Murti Smarak Institute of Medical
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Dr. Piyush Kumar
MD (Radiation Oncology)
Professor & HOD
Reg. No.: 42816



Registrar
Invertis University
Bareilly

Date: 31.01.2023

INVERTIS UNIVERSITY, BAREILLY
Final PhD Viva Voce Examination
Recommendation of Committee

Name of the Candidate: Mr Jitendra Nigam
Subject: Physics

Student ID: PHDPH2018001
Enrolment No: 182266

Date of URDC 12.03.2019

Date of Pre Submission : 06.09.2022

Date of Final Viva Voce Examination: 31.01.2023

Supervisor : Prof P P Singh

Topic : " PATENT SPECIFIC QUALITY ASSURANCE INIMRT/VMAT USING PORTAL DOSIMETERY IMATRIX
2D ARRAY AND USING EPIQA SYSTEM IN PELVIC CANCERS "

Report of The Oral Board

Comments of the Committee

Defended successfully

The Candidate has PASSED / ~~TO RE-APPEAR~~ / ~~FAILED~~

URDC Committee:

1. Prof. YDS Arya Chairman
- 2 Prof. Madan Singh External Expert
3. Prof. P P Singh Dean Sciences & Supervisor Member
4. Mr. Santosh Kumar Registrar Ex-officio Member
5. Dr. Arvind Shukla Professor Secretary
6. Dr Pankaj Kumar Rai Professor Joint Secretary
7. Dr. Sanjeev Jain HOD, Applied Science Member

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31.1.23

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Signature of Examiner

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31/01/23

Santosh
31/01/23
31.01.2023

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31/01/23

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31/01/23

[Signature]
31.1.23

APPROVED BY VICE CHANCELLOR

[Signature]
Registrar
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Bareilly