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Project Report on

**DESIGN, DEVELOPMENT AND  
CHARACTERIZATION OF COLLAGEN-GUAR  
GUM BASED SCAFFOLDS IN TISSUE  
ENGINEERING**

*Submitted by*

**SAYANTAN NAG**

*University Regn. No. – 221892310035 of 2022-23*

*Roll No. -18920322007*

Under the guidance of

**Prof. (Dr.) Santanu Chakraborty**

M.Pharm., PhD., FIC.

Professor, Divisional In-Charge, Division of Pharmaceutics  
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Durgapur 713206

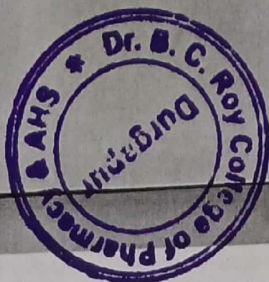
In partial fulfilment of the Requirement for the Degree of  
**Master of Pharmacy in Pharmaceutics**

Submitted to

**Maulana Abul Kalam Azad University of Technology  
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences  
Durgapur 713206**

Academic Year: 2023 - 2024



*Sayan*  
Prof. (Dr.) Santanu Chakraborty  
M. Pharm., PhD. (J.J.)  
Principal  
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## DECLARATION

I am hereby declared that the Project entitled "Design, Development and Characterization of Collagen-Guar gum Based Scaffolds in Tissue Engineering" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. (Dr.) Santanu Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sayantan Nag

Signature


Name of Candidate: Sayantan Nag

Roll No: 18920322007

Date: 06 / 06 / 2024

Place: Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur.



  
Prof. (Dr.) Samir Kumar Samanta  
M. Pharm., Ph.D (J.U.)  
Principal  
Dr. B. C. Roy College of Pharmacy & AHS  
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CERTIFICATE

This is to certify that the Project entitled "Design, Development and Characterization of Collagen-Guar gum Based Scaffolds in Tissue Engineering" by Sayantan Nag in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

*Santanu Chakraborty*  
06/06/24

Signature of Guide

Prof. (Dr.) Santanu Chakraborty  
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Place: Durgapur

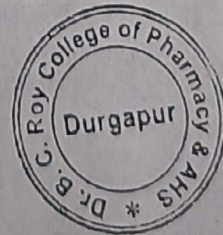
*[Signature]*  
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PROF (DR.) SAMIR KR. SAMANTA  
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*[Signature]*  
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Signature of External Examiner

Name of External Examiner:

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Place: Durgapur



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