

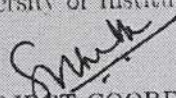
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SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING,  
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CERTIFICATE

This is to certify that the report entitled Solid State Fermentation for Prodigiosin production using *S.marcescens* submitted by Aishathul Haniyya, Ann Elza George, Parvathy S and Sidharth S. to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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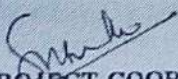
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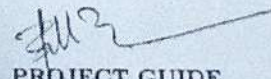


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This is to certify that the report entitled **OPTIMIZATION OF SPECTROSCOPIC METHOD FOR BLOOD GLUCOSE ESTIMATION** submitted by **ANAMIKA K, ANAMIKA M NAMBIAR, DEVIKA MANOJ and VYSAKH S**, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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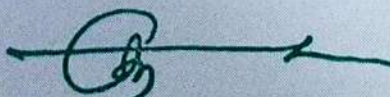
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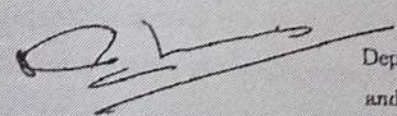
This is to certify that the report entitled **COMPARATIVE STUDIES ON THE EFFECTS OF VARIOUS BACTERIAL CARRIERS IN SELF-HEALING CONCRETE** submitted by **LEKSHMINARAYANAN POTTI S, PARVATHY P, SAFNA SIRAJ T S and SAGARKRISHNA G**, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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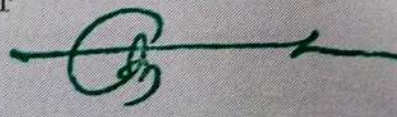
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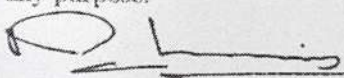


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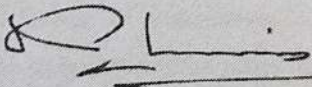
This is to certify that the report entitled Struvite Production and Treatment of Dairy Wastewater using Fluidized Bed Reactor and its Parametric Studies submitted by V Vishal Moorthy, Sreeraj, Bittu Thomas and C K Aswathi, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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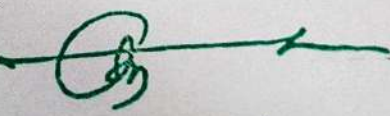
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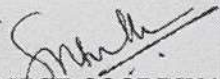
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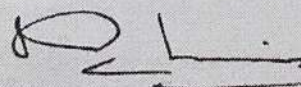
This is to certify that the report entitled **Advanced AI Machine Learning Based Approach For Personalized Breast Cancer Risk Prediction** submitted by **Aby Joy, Ashik Xaviour J, Fazeem K Yoosaf and Mohammed Shameem S**, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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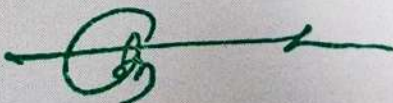
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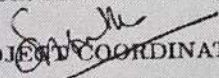
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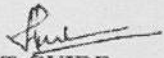


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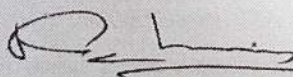
This is to certify that the report entitled **EXPERIMENTAL STUDIES ON ENHANCEMENT OF RHEOLOGICAL PROPERTIES OF USED LUBE OIL BY USING TURMERIC AS AN ADDITIVE** submitted by **ADITYA SANTHOSH, RAJESWARI B, SARANYA M S and SREELAKSHMI A S**, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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Prof Susmitha Kumari  
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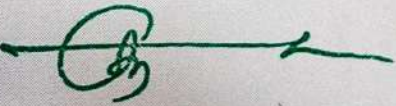
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This is to certify that the report entitled Target nano delivery system for colorectal cancer submitted by Aiswarya RL, Alwin T Varghese, Amrita DG and Priyanka M, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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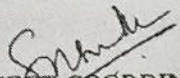


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This is to certify that the report entitled Antioxiant and Antiglycation activities of resveratrol-fortified oats based baked functional food product for Type II Diabetes Mellitus: An *In-silico*, *In-vitro* and *In-vivo* analysis based Approach submitted by AJAS KHAN, ALEENA DENNY, AMRUTHA V and GAYATHRI U G, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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Assistant Professor

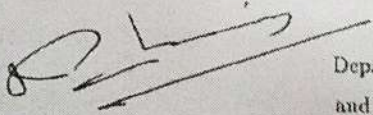
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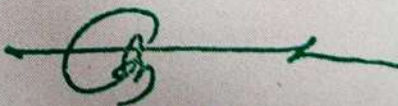
  
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Professor

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College of Engineering  
Trivandrum - 18

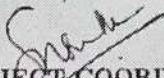
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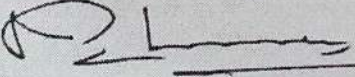
This is to certify that the report entitled **ALGAL BLOOMING: CHEMICAL AND BIOLOGICAL METHODS OF CONTROL AND ALGAL TOXIN NEUTRALIZATION** submitted by **ALINA JACOB, DAKSHINA SURESH, GAYATHRI J** and **NANDANA DEVADAS**, in partial fulfillment for the award of the Degree of Bachelor of Technology in Biotechnology and Biochemical Engineering from APJ Abdul Kalam Technological University during the academic year 2022-23. This report in any form has not been submitted to any other University or Institute for any purpose.

  
PROJECT COORDINATOR

Prof. Susmitha Kumari S  
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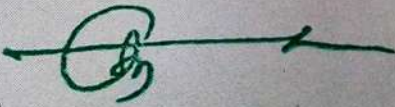
Prof. Jackson G H  
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This is to certify that the report entitled *ARENACEOUS AGGREGATION BY USING SPOROSARCINA PASTEURII* submitted by BISMII HAFISA R S, DINI JUDSON D SILVA, JAITHYA SUSEEL and NANDANA S, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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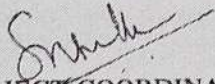


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This is to certify that the report entitled STUDIES ON THE EFFECT OF PRE-TREATMENT AND DIRECT INOCULATION OF *RHODOBACTER* ON BIOHYDROGEN PRODUCTION USING TWO SOURCES OF LIGNO-CELLULOSIC WASTES submitted by CHANDANA M S, SAIRA JOHN, VIS-MAYA S J NAIR, VYSHNAVI A, in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering. This report in any form has not been submitted to any other University or Institute for any purpose.


  
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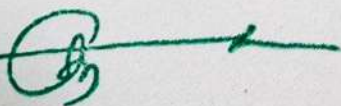
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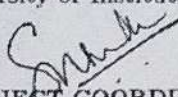


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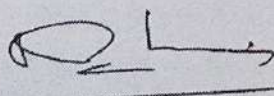
This is to certify that the report entitled "DESIGNING COUMARIN CONJUGATED CHITOSAN CAPSULES FOR THE TREATMENT OF THROMBOEMBOLISM" submitted by DEVIKA GOPI, DIYA ANIL, FATHIMA SUHANA, NANDITA NAIR, RIYA K SABU, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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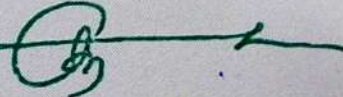
  
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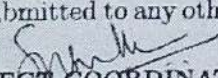
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This is to certify that the report entitled **STUDIES ON ALGAL BIOCRUST AND THEIR APPLICATION IN REHABILITATION OF NUTRIENT DEPLETED SOILS IN EROSION AFFECTED TERRAINS** submitted by **DEVIKA P, HARITHA K H, SHREYAS K NAIR and UMA SHANKAR K M**, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
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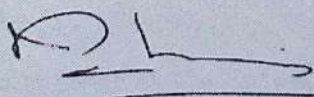
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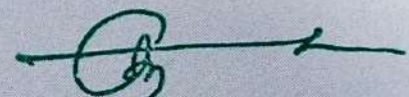
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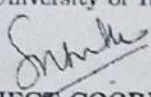
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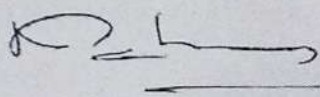
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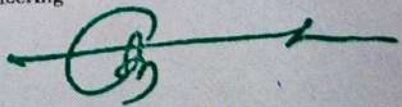
  
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Prof. Baji K  
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Dr. K B Radhakrishnan  
Professor and HOD  
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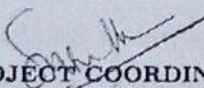
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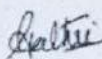


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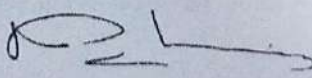
This is to certify that the report entitled ASSESSMENT OF BIODEGRADATION OF POLYETHYLENES IN GARBAGE SOIL USING A CONSORTIUM OF FUNGI submitted by DIYA SUPRIYA DILEEP, JOHN MATHEW POONOLLY, MARIA C JOSEPH and VIDYA V K, to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Biotechnology and Biochemical Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
PROJECT COORDINATOR

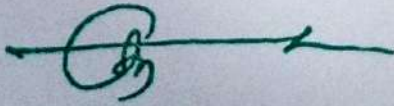
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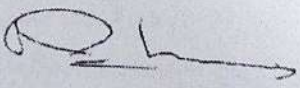
This is to certify that the report entitled **ALGAL BLOOMING: CHEMICAL AND BIOLOGICAL METHODS OF CONTROL AND ALGAL TOXIN NEUTRALIZATION** submitted by **ALINA JACOB, DAKSHINA SURESH, GAYATHRI J and NANDANA DEVADAS**, in partial fulfillment for the award of the Degree of Bachelor of Technology in Biotechnology and Biochemical Engineering from APJ Abdul Kalam Technological University during the academic year 2022-23. This report in any form has not been submitted to any other University or Institute for any purpose.

  
**PROJECT COORDINATOR**

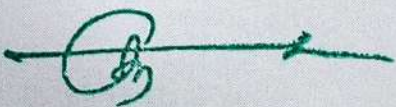
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