

Project Mapping - Project Report - physics (2017-2018)



ARULMIGU PALANIANDAVAR COLLEGE OF ARTS AND CULTURE

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A Government Aided College - Affiliated to Madurai Kamaraj University, Madurai
Dindigul Road, Palani - 624601



I.3 CURRICULUM ENRICHMENT - SUPPORTIVE DOCUMENTS

DEPARTMENT: PHYSICS

CLASS: II M.Sc.

YEAR: 2017-2018

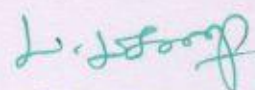
S.No.	UNIVERSITY REG. No.	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE	TITLE OF THE PROJECT
1	B6E16901	CHITRA. C	Mr. V. RAMALINGAM	MORPHOLOGICAL, OPTICAL AND ELASTIC PROPERTIES OF POROUS SILICON TREATED WITH POLYVINYL PYROLIDINE (PVP) BY CHEMICAL ETCHING
2	B6E16902	KAVITHA. V	Mrs. S. ANITHA	MORPHOLOGICAL AND OPTICAL CHARACTERIZATION OF ZnO NANOPARTICLES
3	B6E16903	KIRITHIKA. V	Dr. K. KULATHURAAAN	PRELIMINARY RESEARCH ON CARICA PAPAYA AGAINST DENGUE FEVER
4	B6E16904	LAVANYA. R	Dr. P. KOKILA	INFLUENCE OF ANNEALING TEMPERATURE ON STRUCTURAL ANALYSIS OF TiO ₂
5	B6E16905	MALARVIZHI. C	Dr. M. RAMESH BABU	SYNTHESIS AND CHARACTERIZATION OF Mn DOPED SnO ₂ NANOPARTICLES
6	B6E16906	MALATHI. T	Dr. V. TAMILNAYAGAM	PREPARTION AND CHARACTERIZATION OF NICKEL OXIDE (NiO) THIN FILMS PREPARED BY SPRAY PYROLYSIS METHOD
7	B6E16907	NARMATHA. S	Mrs. R. PREMILA	OPTICAL AND STRUCTURAL PROPERTIES OF ZnO NANOPARTICLES FOR PHOTOCATALYTIC APPLICATION
8	B6E16908	NISHANTHINI DEVI. P. R	Dr. M. RAMESH BABU	SYNTHESIS AND CHARACTERIZATION OF Mn DOPED SnO ₂ NANOPARTICLES
9	B6E16909	SHALINI. S	Dr. V. TAMILNAYAGAM	PREPARTION AND CHARACTERIZATION OF NICKEL OXIDE (NiO) THIN FILMS PREPARED BY SPRAY PYROLYSIS METHOD
10	B6E16910	BALAJI. P. T	Mrs. R. PREMILA	OPTICAL AND STRUCTURAL PROPERTIES OF ZnO NANOPARTICLES FOR PHOTOCATALYTIC APPLICATION
11	B6E16911	PONRANJITH. P	Dr. Lt. K. PAKIYARAJ	PREPARATION AND CHARACTERIZATION OF TiO ₂ THIN

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				FILM BY HOMEMADE SPRAY PYROLYSIS TECHNIQUE
12	B6E16912	RAJESH KUMAR. P	Mrs. S. ANITHA	MORPHOLOGICAL AND OPTICAL CHARACTERIZATION OF ZnO NANOPARTICLES
13	B6E16913	RAJKAMAL. R	Mr. V. RAMALINGAM	MORPHOLOGICAL, OPTICAL AND ELASTIC PROPERTIES OF POROUS SILICON TREATED WITH POLYVINYL PYROLIDINE (PVP) BY CHEMICAL ETCHING
14	B6E16914	SARAVANAN. V	Dr. K. KULATHURAAAN	MORPHOLOGICAL, OPTICAL AND ELASTIC PROPERTIES OF POROUS SILICON TREATED WITH PMMA BY CHEMICAL ETCHING
15	B6E16915	SATHEESKUMA R. V	Dr. P. KOKILA	INFLUENCE OF ANNEALING TEMPERATURE ON STRUCTURAL ANALYSIS OF TiO ₂
16	B6E16916	VEERAMANI. R. K	Dr. Lt. K. PAKIYARAJ	PREPARATION AND CHARACTERIZATION OF TiO ₂ THIN FILM BY HOMEMADE SPRAY PYROLYSIS TECHNIQUE



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PG - PROJECT REPORT- (2017 – 2018) - BATCH

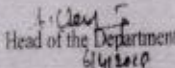
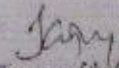
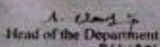

1	<p>CHITRA. C B6E16901</p> <p>UNDER THE GUIDANCE OF Mr. V. RAMALINGAM</p>	<p>CERTIFICATE</p> <p>This is to certify that the project report entitled "Morphological and Elastic Properties of Porous Silicon Treated With Polyvinylpyrrolidone (Pvp) By Chemical Etching" is a bonafide work done by CHITRA. C (REG.NO.B6E16901) and MR. RAJKAMAL K. (REG.NO.B6E16913), Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani and submitted for the partial fulfillment of degree of Master of Science in Physics in the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full, for any diploma, degree, associate ship, fellowship or other similar titles in this or any other university. No portion of the dissertation is a reproduction from any other source, published or unpublished without acknowledgement.</p> <p>Place: Palani, Date: 04.04.2017</p> <p align="right">Signature of the Guide (RAMALINGAM V)</p> <p>EXTERNAL EXAMINERS: <i>[Signatures]</i></p>
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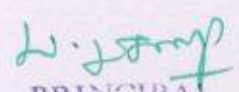
2	<p>KAVITHA. V B6E16902</p> <p>UNDER THE GUIDANCE OF Mrs. S. ANITHA</p>	<p>CERTIFICATE</p> <p>This is to certify that the project report entitled "OPTICAL CHARACTERIZATION OF ZnO NANOPARTICLES" is a bonafide work done by KAVITHA V (REG.NO.B6E16902) and RABISH KUMAR J (REG.NO.B6E16912), Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani -624601 and submitted for the partial fulfillment of degree of Master of Science in Physics in the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full, for any diploma, degree, associate ship, fellowship or other similar titles in this or any other university. No portion of the dissertation is a reproduction from any other source, published or unpublished without acknowledgement.</p> <p>Place: Palani, Date: 04.04.2017</p> <p align="right">Guide <i>[Signature]</i> (ANITHA S)</p> <p align="right"><i>[Signature]</i> HOD PHYSICS HEAD OF DEPT. OF PHYSICS A.P.A. COLLEGE OF ARTS & CULTURE PALANI - 624 601</p> <p>EXTERNAL EXAMINER: <i>[Signature]</i></p>
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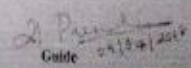
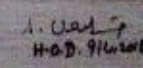
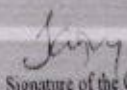
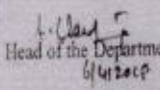
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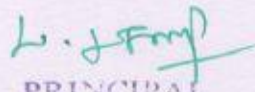
<p>3</p>	<p>KIRITHIKA. V B6E16903</p> <p>UNDER THE GUIDANCE OF Dr. K. KULATHURAAAN</p>	<p>Dr. K. KULATHURAAAN Assistant Professor Department of Physics Arulmigu Palaniandavar College of Arts and Culture Palani - 624 601</p> <p>CERTIFICATE</p> <p>This is to certify that the dissertation entitled "PRELIMINARY RESEARCH ON CURCUMA PAPAYA AGAINST DENGUE FEVER" is entitled to be awarded to KIRITHIKA. V (Reg. No. B6E16903) Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani - 624 601 and awarded for the partial fulfillment of degree of Master of Science in Physics in the Madurai Kamalaj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full, for any diploma, degree, associate ship, fellowship or other similar titles in this or any other university. The portion of the dissertation is a reproduction from any other source, published or unpublished without acknowledgement.</p> <p>Place: Palani Date: 05.04.2018</p> <p><i>K. Kulathuraan</i> KULATHURAAAN, K.V Dr. K. KULATHURAAAN Assistant Professor Department of Physics Arulmigu Palaniandavar College of Arts & Culture Palani - 624 601</p> <p>P. Kokila HEAD OF THE DEPARTMENT DEPARTMENT OF PHYSICS ARULMIGU PALANIANDAVAR COLLEGE OF ARTS & CULTURE PALANI - 624 601</p>
<p>4</p>	<p>LAVANYA. R B6E16904</p> <p>UNDER THE GUIDANCE OF Dr. P. KOKILA</p>	<p>CERTIFICATE</p> <p>This is to certify that the dissertation entitled "INFLUENCE OF ANNEALING TEMPERATURE ON STRUCTURAL ANALYSIS OF TiO₂ THIN FILM" is a bonafide record of the original research work done by Ms. R. LAVANYA (REG. NO. B6E16904) & Mr. MSATHEES KUMAR (REG. NO. B6E16915) during the Academic year July 2016 to April 2018 of his study in the Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani, under my guidance and the Project work has not formed the basis for the award of any Degree/Diploma/AssociateShip/Fellowship of similar title to any candidate of any University.</p> <p>Place: Palani Date: 11/4/18</p> <p><i>P. Kokila</i> P. KOKILA Head of the Department DEPARTMENT OF PHYSICS ARULMIGU PALANIANDAVAR COLLEGE OF ARTS & CULTURE PALANI - 624 601</p> <p><i>P. Kokila</i> Signature of the guide</p>

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5	<p>MALARVIZHI. C B6E16905</p> <p>UNDER THE GUIDANCE OF Dr. M. RAMESH BABU</p>	<p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the dissertation entitled "Synthesis and Characterization of Mn Doped SnO₂ Nanoparticles", is a bonafide record of the original research work done by Mrs. C. MALARVIZHI (REG.NO. B6E16905) & Mrs. P.M. NISHANTHINI DEVI (REG.NO.B6E16908) during the Academic year July 2017 to April 2018 of his study in the Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani, under my guidance and the Project work has not formed the basis for the award of any Degree/Diploma/Associate ship/Fellowship of similar title to any candidate of any University.</p> <p>Place : Palani Date : 6-4-18</p> <p style="text-align: center;">  Head of the Department <small>6/4/2018</small> </p> <p style="text-align: center;">  Signature of the Guide </p>
6	<p>MALATHI. T B6E16906</p> <p>UNDER THE GUIDANCE OF Dr. V. TAMILNAYAGAM</p>	<p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the dissertation entitled "PREPARATION AND CHARACTERIZATION OF NICKEL OXIDE (NiO) THIN FILMS PREPARED BY SPRAY PYROLYSIS METHOD", is a bonafide record of the original research work done by Miss. T. MALATHI (Reg no. B6E16906) & Miss. N. SHALINI (Reg no. B6E16909) during the Academic year July 2016 to April 2018 of his study in the Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani, under my guidance and the Project work has not formed the basis for the award of any Degree/Diploma/Associate ship/Fellowship of similar title to any candidate of any University.</p> <p>Place : Palani Date : 9-4-18</p> <p style="text-align: center;">  Head of the Department <small>9/4/2018</small> <small>HEAD OF THE DEPARTMENT DEPT. OF PHYSICS, A.P.A. COLLEGE OF ARTS & CULTURE, PALANI - 624 601</small> </p> <p style="text-align: center;">  Signature of the guide </p> <p style="text-align: center;"> External Examiner Internal Examiner </p>


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7	<p>NARMATHA. S B6E16907</p> <p>UNDER THE GUIDANCE OF Dr. R. PREMILA</p>	<p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the project report entitled "OPTICAL & STRUCTURAL PROPERTIES OF ZnO NANOPARTICLES FOR PHOTOCATALYTIC APPLICATION" is a bonafide record of the original research work done by NARMATHA.S (REG.NO.B6E16907), and MALAR P.T (REG.NO.B6E16910) Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani -624601 and submitted for the partial fulfillment of degree of Bachelor of Science in Physics to the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full, for any diploma, degree, associate degree, scholarship or other similar titles in this or any other university. No portion of the dissertation is a reproduction from any other source, published or unpublished without acknowledgement.</p> <p>Place: Palani, Date: 04/04/2018</p> <p style="text-align: right;">  Guide (PREMILA R)  H.O.D. 9/16/2018 </p> <p>EXTERNAL EXAMINERS:</p>
8	<p>NISHANTHINI DEVI. P. R B6E16908</p> <p>UNDER THE GUIDANCE OF Dr. M. RAMESH BABU</p>	<p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the dissertation entitled "Synthesis and Characterization of Mn Doped SnO₂ Nanoparticles", is a bonafide record of the original research work done by Mrs. C. MALARVIZHI (REG.NO. B6E16905) & Mrs. P.M. NISHANTHINI DEVI (REG.NO.B6E16908) during the Academic year July 2017 to April 2018 of his study in the Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani, under my guidance and the Project work has not formed the basis for the award of any Degree/Diploma/Associate ship/Fellowship of similar title to any candidate of any University.</p> <p>Place : Palani Date : 6/4/18</p> <p style="text-align: right;">  Signature of the Guide </p> <p style="text-align: left;">  Head of the Department 6/4/2018 </p>


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<p>9</p>	<p>SHALINI. S B6E16909</p> <p>UNDER THE GUIDANCE OF Dr. V. TAMILNAYAGAM</p>	<p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the dissertation entitled "PREPARATION AND CHARACTERIZATION OF NICKEL OXIDE (NiO) THIN FILMS PREPARED BY SPRAY PYROLYSIS METHOD", is a bonafied record of the original research work done by Miss. T. MALATHI (Reg no. B6E16906) & Miss. S. SHALINI (Reg no. B6E16909) during the Academic year July 2016 to April 2018 of his study in the Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani, under my guidance and the Project work has not formed the basis for the award of any Degree/Diploma/Associate ship/Fellowship of similar title to any candidate of any University.</p> <p>Place: Palani Date: 04.08.18</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p><i>A. Chandrasekhar</i> Head of the Department HEAD OF DEPARTMENT A.P.S. COLLEGE OF ARTS & CULTURE PALANI - 624 601</p> <p>External Examiner</p> </div> <div style="text-align: center;"> <p><i>V. Tamilnagam</i> Signature of the guide</p> <p>Internal Examiner</p> </div> </div>
<p>10</p>	<p>BALAJI. P. T B6E16910</p> <p>UNDER THE GUIDANCE OF Dr. R. PREMILA</p>	<p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the project report entitled "OPTICAL & STRUCTURAL PROPERTIES OF ZnO NANOPARTICLES FOR PHOTOCATALYTIC APPLICATION" is bonafied work done by NARAYANA S (REG. NO. B6E16907), and BALAJI P (REG. NO. B6E16910) Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani - 624601 and submitted for the partial fulfillment of degree of Master of Science in Physics in the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full, for any diploma, degree, associate degree, fellowship or other similar titles in this or any other university. No portion of the dissertation is a reproduction from any other source, published or unpublished without my permission.</p> <p>Place: Palani Date: 09.08.2018</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p><i>R. Premila</i> Guide 09/08/2018</p> <p>(PREMILA R)</p> <p><i>A. Chandrasekhar</i> H.O.D. 9/8/2018</p> <p>INTERNAL EXAMINERS:</p> </div> </div>

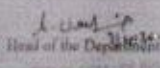
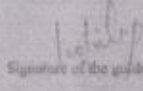
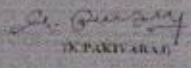
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<p>11</p>	<p>PONRANJITH. P B6E16911</p> <p>UNDER THE GUIDANCE OF Lt.Dr.K. PAKIYARAJ</p>	<p>Lt. Dr. K. PAKIYARAJ Assistant Professor Department of Physics Arulmigu Palaniandavar College of Arts and Culture Palani - 624 601.</p> <p>CERTIFICATE</p> <p>This is to certify that the project report entitled "Preparation and Characterization of TiO₂ thin film by Homocatalytic Spray Pyrolysis Technique" is a research work done by P. PONRANJITH (Reg.No.BE16911) and R.K. VEERAMANI (Reg.No.BE16914) Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani - 624 601 and submitted for the partial fulfillment of degree of Master of Science in Physics to the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2015-2016. This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full for any diploma, degree, associate ship, fellowship or other similar titles in this or any other university. No portion of the dissertation is a reproduction from any other source, published or unpublished without acknowledgement.</p> <p>Place: Palani, Date: 15.05.2016</p> <p><i>(Signature)</i> DR. PAKIYARAJ</p>
<p>12</p>	<p>RAJESH KUMAR. P B6E16912</p> <p>UNDER THE GUIDANCE OF Mrs. S. ANITHA</p>	<p>CERTIFICATE</p> <p>This is to certify that the project report entitled "MORPHOLOGICAL & OPTICAL CHARACTERIZATION OF ZnO NANOPARTICLES" is a research work done by KAVITHA V. (REG.NO.BE16902) and RAJESH KUMAR P. (REG.NO.BE16912), Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani - 624601 and submitted for the partial fulfillment of degree of Master of Science in Physics to the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full, for any diploma, degree, associate ship, fellowship or other similar titles in this or any other university. No portion of the dissertation is a reproduction from any other source, published or unpublished without acknowledgement.</p> <p>Place: Palani, Date: 04.04.2018</p> <p><i>(Signature)</i> ANITHA (ANITHA)</p> <p><i>(Signature)</i> HOD PHYSICS HEAD OF DEPT. OF PHYSICS A.P.A. COLLEGE OF ARTS & CULTURE PALANI - 624 601</p> <p>EXTERNAL EXAMINER</p>

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<p>13</p>	<p>RAJKAMAL. R B6E16913</p> <p>UNDER THE GUIDANCE OF Mr. V. RAMALINGAM</p>	<p>V. RAMALINGAM, M.Sc., M.Phil., B.Ed., Associate Professor, Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani - 624 601.</p> <p>CERTIFICATE</p> <p>This is to certify that the project report entitled "Morphological, Optical and Elastic Properties of Porous Silicon Treated With Polyvinyl Pyrrolidone (Pvp) By Chemical Etching" is a bonafidework done by RAJKAMAL R (REG.NO.B6E16913) and MR. RAJKAMAL K (REG.NO.10913), Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani and submitted for the partial fulfillment of degree of Master of Science in Physics in the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or as full, for any diploma, degree, certificate, fellowship or other similar titles in this or any other university. No part of the dissertation is a reproduction from any other source, published or unpublished without acknowledgment.</p> <p>Date: 04-04-2018</p> <p>Signature of the Guide (V. RAMALINGAM)</p> <p>INTERNAL EXAMINERS:</p> <p>CS</p>
<p>14</p>	<p>SARAVANAN. V B6E16914</p> <p>UNDER THE GUIDANCE OF Dr. K. KULATHURAAAN</p>	<p>Dr. K. KULATHURAAAN Senior Professor Department of Physics Arulmigu Palaniandavar College of Arts and Culture Palani - 624 601.</p> <p>CERTIFICATE</p> <p>This is to certify that the dissertation entitled "Morphological, Optical and Elastic Properties of Porous Silicon Treated with PMMA by Chemical Etching" is bonafidework done by SARAVANAN V (REG. No.B6E16914), Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani - 624 601 and submitted for the partial fulfillment of degree of Master of Science in Physics in the Madurai Kamaraj University, Madurai, under my supervision and guidance during the academic year 2017-2018.</p> <p>This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or as full, for any diploma, degree, certificate, fellowship or other similar titles in this or any other university. No part of the dissertation is a reproduction from any other source, published or unpublished without acknowledgment.</p> <p>Date: 04-04-2018</p> <p>Signature (D. K. KULATHURAAAN)</p> <p>HEAD OF THE DEPARTMENT K. KULATHURAAAN</p> <p>INTERNAL EXAMINERS:</p>

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<p>15</p>	<p>SATHEESKUMAR. V B6E16915</p> <p>UNDER THE GUIDANCE OF Dr. P. KOKILA</p>	<p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the dissertation entitled "INFLUENCE OF ANNEALING TEMPERATURE ON STRUCTURAL ANALYSIS OF TiO₂ THIN FILM" is a bonafide record of the original research work done by M/s. RLAVANYA (REG.NO.B6E16904) & Mr. MSATHEES KUMAR (REG.NO.B6E16915) during the Academic year July 2016 to April 2018 of his study in the Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani, under my guidance and the Project work has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship of similar title to any candidate of any University.</p> <p>Place: Palani Date: 21/11/18</p> <p style="text-align: center;">  Head of the Department DEPT OF PHYSICS A.C.A. COLLEGE OF ARTS & CULTURE PALANI - 624 601 </p> <p style="text-align: right;">  Signature of the guide </p>
<p>16</p>	<p>VEERAMANI. R. K B6E16916</p> <p>UNDER THE GUIDANCE OF Lt.Dr. K. PAKIYARAJ</p>	<p>Lt.Dr. K. PAKIYARAJ Assistant Professor Department of Physics Arulmigu Palaniandavar College of Arts and Culture Palani - 624 601.</p> <p style="text-align: center;">CERTIFICATE</p> <p>This is to certify that the project report entitled "Preparation and Characterization of TiO₂ thin film by Hummer's Sulfur Pyrolysis Technique" is a bonafide work done by P. PONRANJITH (Reg.No.B6E16911) and R.K. VEERAMANI (Reg.No.B6E16916) Department of Physics, Arulmigu Palaniandavar College of Arts and Culture, Palani - 624 601 and submitted for the partial fulfilment of degree of science in physics in the month of August 2018. This dissertation is an original work of the candidate and to the best of my knowledge has not been submitted in part or in full, for any diploma, degree, associateship, fellowship or other similar titles in this or any other university. No portion of the dissertation is a reproduction from any other source published or unpublished without acknowledgment.</p> <p>Place: Palani Date: 15/08/2018</p> <p style="text-align: right;">  Lt. Dr. K. PAKIYARAJ </p>


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