



DHANUSH C

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Professional Aspiration

To work in a progressive organization which enables me to apply my intense knowledge in academics and research with innovative skills in order to keep abreast with latest developments.

Academic Testament

S. No	Course	Subject	Name of the Institution	Board/ University	Year of passing	Percentage/ CGPA
1	Ph. D	Chemistry	The Gandhigram Rural Institute. Gandhigram, Dindigul.	The Gandhigram Rural Institute- Deemed to be University	Pursuing (Synopsis submitted)	-
2	M. Sc	Chemistry	PSG College of Arts and Science, Coimbatore.	Bharathiar University	2018	7.9/10
3	B. Sc	Chemistry	PSG College of Arts and Science, Coimbatore.	Bharathiar University	2016	8.4/10
4	HSC	Computer Science	SVG V Matriculation and Higher Secondary School, Karamadai.	State Board	2013	87%
5	SSLC	-	St. Mary's Home Matriculation School, Kotagiri.	Matriculation	2011	89.8%

❖ Core Proficiency: **“CHEMISTRY”**

❖ Allied Subjects:

UG	PG
<ol style="list-style-type: none">1. Mathematics2. Physics3. Industrial Biology4. Food Chemistry	<ol style="list-style-type: none">1. Basic electronics for chemists (EDC offered by the Department of Electronics)2. Food Chemistry and Quality Control

Conferences/Workshop Conversancy:

- ❖ Presented a paper entitled **“Synthesis of highly efficient and blue emissive fluorescent nitrogen doped carbon dots and their application in the field of bio-imaging”** in an international virtual conference on Expanding Frontiers in Chemistry (EFC 2021) organised by the Department of Chemistry, Arul Anandar College, Karumathur, Madurai on 11th & 12th November 2021. (Note: Best Oral Presentation was awarded)
- ❖ Presented a paper entitled **“Degradation of the reactive red dye using the biogenic nitrogen doped carbon dots synthesized from *Annona reticulata* fruit”** in an international conference on Frontiers in Chemical and Materials Sciences (ICFCMS-2020) organised by the Department of Chemistry, The Gandhigram Rural Institute (Deemed to be University) on 24th & 25th February 2020.
- ❖ Participated in a hands-on training program on **“Accessing e- Resources and Reference Tools”** organised by the Department of Library, The Gandhigram Rural Institute (Deemed to be University) on 22nd October 2019.
- ❖ Presented a paper entitled **“Electrocatalytic oxidation of hydrazine hydrate using nitrogen and boron co-doped fluorescent carbon dots”** in a workshop organised by NSEST-2019 in association with The Electrochemical Society of India at IISc, Bangalore on 19th & 20th July-2019.
- ❖ Participated in a National Level Workshop on **“XRD and its Applications (NWXA-2019)”** organised by the Department of Physics, The Gandhigram Rural Institute (Deemed to be University) on 25th July 2019.
- ❖ Participated in a National Level Workshop on **“Nuclear Magnetic Resonance Spectroscopy (WNMRS-2019)”** organised by the Department of Chemistry, The Gandhigram Rural Institute (Deemed to be University) on 22nd & 23rd March 2019.
- ❖ Participated in an **“International Conference on Research Initiatives in Chemistry for Sustainable Development (RICS-2019)”** organised by the Department of Chemistry, The Gandhigram Rural Institute (Deemed to be University) on 18th & 19th March 2019.
- ❖ Participated in one month residential **“Chemistry Research Drive Program (CRD-2017)”** at SSN college of Engineering, Chennai from 11th May to 10th June 2017.
- ❖ Participated in a training program on **“Youth Leadership”** organised by the Manavar Mandram (Aided) in association with Mastering Mind Academy at PSG college of Arts and Science on 28th January 2016.
- ❖ Participated in a hands-on training program on **“Laboratory Safety Measures And Fire Fighting Techniques”** under DBT Star College Scheme, organised by the Department of Chemistry, PSG college of Arts and Science on 23rd February 2015.
- ❖ Participated in a workshop on **“Radiochemistry”** under DBT Star College Scheme, organised by the Department of Chemistry in collaboration with IGCAR, Kalpakkam at PSG college of Arts and Science on 17th & 18th February 2015.

- ❖ Participated in **“National Conference on Advances in Science and Technology”** organised by the Department of Chemistry, PSG college of Arts and Science on 12th & 13th September 2014 .
- ❖ Participated in **“Entrepreneurship Awareness Camp”** workshop organised by the Entrepreneurship Development Cell (Sponsored by DST) at PSG college of Arts and Science on 19th – 21st September 2013.

Industrial Endowments:

- ❖ Undergone an In-plant training for a period of 10 days in the field of Industrial Chemistry at Sunmac Enterprises, Coimbatore.
- ❖ Undergone hands-on training in manufacturing sugar at Sakthi Sugars Pvt. Ltd., Bhavani, Erode.

Internship:

- ❖ Undergone three months Internship at **“CSIR-Indian Institute of Chemical Technology”**, Hyderabad and worked on the topic **“Synthesis of 2H- chromene based heterocyclic compounds from 4-chloro-2H-chromene-3-carbaldehydes”** from 01.12.2017 to 28.02.2018.

Non-Academic Contribution:

- ❖ Participated in the South Zone Regional Workshop on **“Initiating UBA activities in village clusters adopted by participating Institutes”** organized by IIT-Madras on 3rd December 2018. (Representative of KPR Institute of Engineering & Technology, Coimbatore).

Research Experience:

- ❖ Served as Project Fellow in a DST-SERB sponsored project titled **“Eco-Friendly Synthesis of Hetero Atom Doped Carbon Dots and its Application in Bio-Imaging and Catalysis”** in the Department of Chemistry, The Gandhigram Rural Institute (Deemed to be University) from 18.02.2019 to 30.09.2021.
- ❖ Served as Research Assistant in the Department of Chemistry, KPR Institute of Engineering & Technology, Coimbatore from 15.09.2018 to 07.02.2019.

Research Publications: (3)

- ❖ Published a research article entitled **“Synthesis of blue emissive fluorescent nitrogen doped carbon dots from *Annona squamosa* fruit extract and their diverse applications in the field of catalysis and bio-imaging”** in the **Journal of Photochemistry & Photobiology, A: Chemistry, 432 (2022) 114097**, <https://doi.org/10.1016/j.jphotochem.2022.114097>.
- ❖ Published a research article entitled **“Independent hydrothermal synthesis of the undoped, nitrogen, boron and sulphur doped biogenic carbon nano dots and their potential application in the catalytic chemo-reduction of Alizarin yellow R azo dye”** in the journal **Spectrochimica Acta Part-A: Molecular and Bio-molecular Spectroscopy, 260 (2021) 119920**, doi.org/10.1016/j.saa.2021.119920.

- ❖ Published a research article entitled “**Influence of phyto-derived nitrogen doped carbon dots from the seeds of *Azadirachta indica* on the NaBH₄ reduction of Safranin-O dye**” in the **Journal of Diamond and Related Materials**, 108 (2020)107984, doi.org/10.1016/j.diamond.2020.107984.

Awards/ Honours and Responsibilities:

- ❖ Received the “**Best Oral Presentation Award**” for the paper presented in the International virtual conference on **Expanding Frontiers in Chemistry (EFC-21)** held on November 11 & 12, 2021 at Arul Anandar College, Madurai.
- ❖ I was the **Student Chairperson** of **Manavar Mandram (Aided)** at PSG College of Arts and Science, Coimbatore during 2015-16.
- ❖ Organised “**YOUTH LEADERSHIP**” program in association with Mastering Mind Academy at PSG College of Arts and Science, Coimbatore.
- ❖ Chief- Organiser of “**PONVASANTHAM 2017**” (Hostel Day Function) at PSG College of Arts and Science, Coimbatore.

Scientific Instruments Expertise:

- ❖ UV-Visible Spectrophotometer
- ❖ Fluorescence Spectrophotometer
- ❖ FT-IR Spectrophotometer

General & Scientific Software Expertise:

- ❖ MS-Office, Chem-draw Ultra, Origin scientific software, CASA- XPS software

Persona

- ❖ I am astute and can mould myself to all working environments.
- ❖ I have the ability to rapidly build up relationship and set up trust.

Inherent Particulars

- ❖ Father’s name : Mr. B. Chandrasekaran.
- ❖ Mother’s name : Mrs. R. Shanthy.
- ❖ Date of Birth : 08-08-1995
- ❖ Address : 6/40, Dhimbatty village, Kannerimukku (post), Kotagiri, The Nilgiris.
- ❖ Pincode : 643217

Linguistic Competence:

- ❖ English, Tamil, Badaga and Kannada

Testimonial:

- ❖ **Dr. M.G. Sethuraman., M.Sc., Ph.D.**

Professor of Chemistry,
The Gandhigram Rural Institute- Deemed to be University,
Gandhigram-624302,
Dindigul.
Ph: 94430-21565

Reference:

- ❖ **Dr. S. Manonmani, M. Sc., M. Phil., B. Ed., Ph.D.**

Associate Professor and Head (Retd.),
Department of Chemistry,
PSG College of Arts and Science,
Coimbatore – 641014.
Ph: 99949-26667

- ❖ **Dr. R .Rajendran, M. Sc., MBA, PGDEM, Ph.D.**

Associate Professor
Department of Micro Biology,
PSG College of Arts and Science,
Coimbatore – 641014.
Ph: 94437-51400

Affirmation:

I hereby declare that the details furnished above are genuine to the best of my knowledge and belief.

Yours Sincerely,



(C. DHANUSH)