

FACULTY PROFILE



<i>Name</i>	<i>Dr. R. Betsy Clarebel</i>
<i>Designation</i>	<i>Assistant Professor</i>
<i>Department</i>	<i>Chemistry</i>
<i>Date of Birth</i>	<i>17.09.1993</i>
<i>Date of Appointment</i>	<i>01.08.2024</i>

Area of Specialization : *Physical Chemistry & Biological Oxidation*

Personal Affiliation : *JACSFA Committee member*

Fine arts Committee member

Discipline Committee member

Equal Oppurtunity cell Committee member

Academic Records

Degree/Course	Name of the Institution/ University / Board	Subject	Mark/ Grade	Awards/ Distinction
TNSET 2018	Mother Teresa Women's University,Kodaikanal	Chemical Sciences	Qualified	Qualified
Ph.D. Chemistry	St.Joseph's College (Autonomous), Bharathidasan University Tiruchirappalli.	Chemistry	Completed Ph.DViva Voce on 8th July 2020	Qualified with Highly commended
M.Sc. Chemistry April 2016	St.Joseph's College (Autonomous), Bharathidasan University Tiruchirappalli.	Chemistry	82.63 %	First Class with Distinction
B.Sc. Chemistry April 2014	Holy Cross College (Autonomous), Bharathidasan University Tiruchirappalli.	Chemistry	85.45 %	First Class with Distinction
HSC 1 st group (Bio Maths) March 2011	St.Joseph'sAnglo-Indian Girls Higher Secondary School, Tiruchirappalli. State Board.		79.80 %	Distinction
SSLC March 2009	St.Joseph'sAnglo-Indian Girls Higher Secondary School, Tiruchirappalli. Anglo Indian Board.		91.60 %	Outstanding

Title of Ph.D. Thesis

“Biomimic Oxidation of some amino acids, carbohydrates, hydroxyacids and drugs by Enzyme Peroxidase”

Awards/ Merit Certificates– 11

S.No	Certificates Of Merit	Subject	Year
1	Best Research Scholar award	Chemistry, School of Physical Sciences	175th College Day, 15th March 2019
2	Project Applied to TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY	PROGRAMME FOR BRIDGING THE GAP IN RESEARCH FUNDING FOR RESEARCH SCHOLARS IN COLLEGES (RERS) (2018 – 2019)	(2018 – 2019)
3	PG Rank Holder award	First Rank, M.Sc Chemistry, I-IV Semesters	Graduation Day, 8th January 2017
4	Fr Mathew J Moolel SJ Medal	For Best Outstanding In Studies, M.Sc Chemistry, I-IV Semesters	Graduation Day, 8th January 2017
5	Shri R Govindarajan Memorial Cash Award	For Best Outstanding In Studies, M.Sc Chemistry, I-IV Semesters	Graduation Day, 8th January 2017
6	Raja Sri Annamalai Chettiyar Medal	First Rank- IV Semester	Graduation Day, 8th January 2017
7	Shri S Kuppuswamy Memorial Gold Medal&Cash Award	For Best Outstanding In Studies, M.Sc Chemistry	Heritage College Day, 16th March 2016
8	Dr K Nambi Endowment Cash Award	For Best Outstanding In Studies, M.Sc Chemistry	Heritage College Day, 16th March 2016
9	Fr A Felix Joseph SJ Medal	For Best Outstanding In Studies, M.Sc Chemistry, First Rank-III Semester	Heritage College Day, 16th March 2016
10	Thiru Jerome Pitchai Medal	For Best Outstanding In Studies M.Sc. Chemistry, First Rank- II Semester	Heritage College Day, 16th March 2016
11	College Management Medal	M.Sc Chemistry, First Rank- I Semester	171st College Day, 18th March 2015

List of Papers Published in International and National Journals

International journals –10

National journal – 1

S.No	First Author	Title	Journal	Page No	Impact factor	International/National
1	R.Betsy Clarebel	Biological Oxidation Behaviour of Cobalt μ -Peroxo Complex on L-Asparagine -A Kinetical View	THINK INDIA (quarterly journal)	Vol-22- Issue-4- Oct-Dec- 2019	5.9	International (UGC CARE) listed Journal
2	R.Betsy Clarebel	“Biological Oxidative Activity of L-Glutamine by Peroxo Complex - A Biomimetic Approach”	ADALYA JOURNAL	volume 8, issue 10, Oct- 2019	5.3	International (UGC CARE) listed Journal, (Web of Science)
3	R.Betsy Clarebel	A Kinetic Enquiry On The Biological Oxidation Of Fructose By μ -Peroxo Complex	THINK INDIA (quarterly journal)	Vol-22- Issue-4- Oct-Dec- 2019	5.9	International (UGC CARE) listed Journal
4	R.Betsy Clarebel	“Oxidation Aspect of Sucrose by Cobalt Peroxo Complex - A biomimic and kinetic Study”	ADALYA JOURNAL	volume 8, issue 10, Oct- 2019	5.3	International (UGC CARE) listed Journal, (Web of Science)
5	R.Betsy Clarebel	A Kinetical Investigation on the Biological Oxidation of Fructose by μ -Peroxo Complex	International Journal of Research and Analytical Reviews (IJRAR)	Vol.5, Iss. 4, 2018 915-918	5.75	International
6	R.Betsy Clarebel	A Biomimic Oxidation Behaviour of Cobalt μ -Peroxo Complex on L-Asparagine –A Kinetical Approach	Journal of Emerging Technologies and Innovative Research (JETIR)	Vol. 5, Iss. 9, 2018 370-373	5.87	International
7	R.Betsy Clarebel	Inhibitive Properties Of Sodium Molybdate– Zn^{2+} System And Its Synergism With Garlic Extract	World Journal Of Pharmacy And Pharmaceutical Sciences	Vol. 5, Iss. 10, 2016 921-938	6.041	International
8	R.Betsy Clarebel	Corrosion Inhibition Of Carbon Steel In Well Water By Trisodium Citrate – Cu^{2+} As Inhibitor	World Journal Of Pharmacy And Pharmaceutical Sciences	Vol. 6, Iss. 12, 2017, 642-659	6.647	International
9	R.Betsy Clarebel	Inhibition Of Corrosion Of Carbon Steel In A Well Water By Sodium Molybdate– Zn^{2+} - A Phosphonic Acid System	Researcher	Vol. 7, Iss. 3, 2015, 66-73		International
10	R.Betsy Clarebel	Role Of Zinc Ions In Increasing Corrosion Inhibition Efficiency	Researcher	Vol. 7, Iss. 3, 2015, 74-86		International

11	R.Betsy Clarebel	Influence of Aloe vera Extract on Corrosion Inhibition of Mild Steel in Well Water	RETELL St.Joseph's College,	Vol. 15,P19		National
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Authored a Chapter in a Book Published in International Journal

S.No	First Author	Title of the Book	Title of the Chapter	Journal	Page No	International/National
1	R.Betsy Clarebel	Nanotechnology in the Beverage Industry	Instant beer	Elsevier	(pp.687-701)	International (SCOPUS INDEXED)

Papers Presented in Conferences –9

S.No	Title	Name of the Conference	Date and place	International/National
1	Biomimic oxidation studies of Fructose by ethylenediamine μ -peroxo complex in aqueous medium.	National conference on advanced materials in chemistry (NCAMC'18)	8 th February, 2018 St. Joseph's College, Trichy,	National
2	An Approach To Study The Oxidation Kinetics Of Glycine By Amine μ - Peroxo Complex In Aqueous Medium.	National conference on advanced materials in chemistry (NCAMC'18)	8 th February, 2018 St. Joseph's College, Trichy,	National
3	A Generalised Biomimetic Kinetics Of Oxidation Of L-Serine By Cobalt μ -Peroxo Complex in aqueous medium	National Conference on "Advances in Applied Chemistry"	14 th December, 2018 St. Joseph's College, Trichy.	National
4	A Kinetical Investigation On The Biological Oxidation Of Sucrose By μ -Peroxo Complex.	4 th International conference on chemical and environmental research (ICCER-2018)	19 th December, 2018 Jamal Mohamed College, Trichy.	International
5	A Kinetical Approach On The Oxidation Behaviour Of Cobalt μ -Peroxo Complex On L-Asparagine -A Biomimic Model System.	National conference on "Nano National Summit- Current trends and future perspectives" (NNSCTFP-2019)	9 th and 10 th January 2019 Holy Cross College, Trichy.	National
6	Kinetic Analysis Of Oxidation Of L-Glutamine By Cobalt μ -Peroxo Complex In Aqueous Medium.	National Conference on Recent Developments in Materials AND Chemical Sciences (RDMCS- 2019)	28 th February 2019 BWDA Arts and Science College, Kolliyangunam.	National
7	A Kinetical Inquiry On the Biological Oxidation Of D-Maltose By Cobalt μ -PeroxoComplex In Aqueous Medium.	A Two Day National Conference on "Recent Innovations in Phytochemistry" (RIPC-2019)	21 st and 22 nd August, 2019 J.J. College of Arts and Science, Pudukkottai.	National
8	The Biological Oxidation Activity Of Cobalt μ -Peroxo Complex On D-L-Malic acid -A Kinetical Biomimetic View.	International Conference on "New Vistas in Material Science (NVMS-2019)"	12 th September, 2019 Seethalakshmi Achi College for Women, Pallathur.	International

9	Biological Oxidation of Mandelic acid by μ - Peroxo Complex – A kinetic method.	One day National Conference on “Frontiers of Material Science (NCFMS-19)	13 th December, 2019, St. Joseph’s College, Trichy.	National
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Workshop / FDP Attended

- Participated in the One-week Faculty Development Program on “Computational and Experimental Insights into Materials Research (CEIMR - 2025) Organized by the Department of Physics and Chemistry (S&H), JB Institute of Engineering and Technology, Hyderabad.
- Participated in the seven days Faculty Development Program on " The Future of Teaching and learning through AI-Infused Digital Education" Organized by PRIMAX FOUNDATION, Bengaluru, Karnataka, India.
- Participated in the SERB-ANRF-sponsored Five days Hybrid FDP Workshop on "Sustainable Hydrogen Production And Integration Of Hydrogen Technologies". Under the Scientific Social Responsibility (SSR) Initiative, Organized by Sustainable Energy Technology Laboratory, Department of Mechanical Engineering PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur (M.P).
- Successfully completed the Five-day International Virtual Faculty Development Programme (IVFDP) on Harnessing Generative AI: Smart tools for Teaching and Learning, Evaluation & Research (TLE&R). Organized by the Department of Computer Science, St. Joseph's College, Trichy.

Co-curricular activities

- Participated in “**Rangeela Eco Friendly Bag**” event and name was entered in “**Limca Books of Records**”-2011.
- Won **2nd Prize** in Group song (**Indian**) in **INDEP’14** - St.Joseph’s College, Tiruchirappalli.
- Won **3rd Prize** in Group song (**Indian**) in **INDEP’15-16** - St.Joseph’s College, Tiruchirappalli.
- Won **3rd Prize** in Group song (**Western**) in **INDEP’15-16** - St.Joseph’s College, Tiruchirappalli.
- Won **3rd Prize** in Classical Vocal (**Solo**) in **INDEP’15-16** - St.Joseph’s College, Tiruchirappalli.
- Completed **Diploma in Computer Application (DCA)** with **First Class** with basic computer knowledge, 2016.
- Participated in the **State Level Preparative Workshop in Chemistry** (PWC-17) for the **NET/GATE** Aspirants-2017 organized by Dept. of Chemistry, St.Joseph’s College, Tiruchirappalli.
- Participated in the National Conference on “**RECENT ADVANCES IN CHEMISTRY AND RESEARCH AND ITS APPLICATIONS**” (NCRACRIA-17) on 19th Jan 2017, Dept of Chemistry, St.Joseph’s College, Tiruchirappalli.
- Participated in the International Conference on “**Frontiers in Advanced Materials and their Applications**” on 9th Jan 2018, held at Bishop Heber College, Tiruchirappalli-17.
- Participated in the seminar on “**Research Productivity and Plagiarism**” on 29th Jan 2018, St.Joseph’s College, Tiruchirappalli.
- Participated in the seminar on “**RESEARCH ETHICS**” on 15th Oct 2018, St.Joseph’s College, Tiruchirappalli.

- **Acted as Resource person** in the **Regional Workshop on Micro level Chemical Analysis** conducted from 4th to 7th September 2019 at Dept. of Chemistry, St. Joseph's College, Tiruchirappalli.
- Participated in the seminar on **“Dynamics of Research Quality”** on 15th Oct 2019, St. Joseph's College, Tiruchirappalli.
- Participated in the **5 Km SJC175th year MARATHON' 19 – RUN FOR YOUR FAVORITE TEACHER** held on 22nd September, 2019.

Meritorious curriculum

Graduated in Classical Vocal Singing from Kalai Kaveri College of FineArts.

Contact Details

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