CURRICULUM VITAE OF Dr. L. BENEDICT MICHAEL RAJ

Annexure- I

NAME   : **Dr. L. BENEDICT MICHAEL RAJ**

ACADEMIC VISION   :**To mould God-fearing, truth-loving, patriotic and humanitarian citizens who honour human lives with special respect and love for the poor, the powerless women and children**

DESIGNATION   : **ASSOCIATE PROFESSOR & HEAD**

QUALIFICATION   : **M.Sc., M.Phil., PGDCSA., Ph.D.,**

DATE OF BIRTH   : **29.09.1961**

DATE OF
APPOINTMENT   : **03.01.1985**

ADDRESS   : **ASSOCIATE PROFESSOR & HEAD, Department of Mathematics St.Joseph's College (Autonomous), Tiruchirappalli-620002.**

PHONE NO: 0431-2419836 MOBILE NO : 9443603272

E-MAIL ID: benedict.mraj@gmail.com

AREA OF SPECIALIZATION: Algebraic Topology and Graph Theory

Educational Details

Qualification	Name of the College	Name of the University	Year
Ph.D	St.Joseph's College (Autonomous), Trichy-02.	Bharathidasan University	2009
M.Phil	Ramanujam Institute for Advanced Study in Mathematics	Madras University	1983-1984
M.Sc	St.Joseph's College (Autonomous), Trichy-02.	Madras University	1981-1983
B.Sc	St.Joseph's College (Autonomous), Trichy-02.	Madras University	1978-1981
PGDCSA	Bishop Heber College, Trichy-17	Bharathidasan University	1991

DETAILS OF THESIS:

Title of the Thesis	Affiliated University	Year of Award
Ph.D: A Study On Chromatic Transversal Domination In Graphs	Bharathidasan University	2009
M.Phil: Classification Of One and Two Dimensional Manifolds	Madras University	1984

PAPERS PRESENTED:

Paper presented / Attended 17 conferences in National and International level

Publication Details:

1. R. Lawrence Joseph Manoharan, S.K. Ayyaswamy and L. Benedict Micheal Raj, *Dominating Chromatic Transversal Number of a Graph,* Europian Journal of Scientific Research, 83 (2012) 344-348.

2. L. Benedict Michael Raj, S. K. Ayyaswamy and I. Sahul Hamid, *Chromatic Transversal Domination Number of Graph,s* International Mathematical Forum, 5 (2010) 13-16.

3. L. Benedict Michaelraj, S.K. Ayyaswamy and S. Arumugam *Chromatic Transversal Domination In Graphs*, Journal of Combinatorial Mathematics and Combinatorial Computing, 75 (2010) 33-40.

4. Benedict Michaelraj L, *Dominating Colour Transversal Number for Trees and their Bounds,* Indian Journal of Mathematics and Mathematical Sciences, 5 (2009) 243-246.

5. Amalorpava Jerline J, Benedict Michaelraj L, Dhanalakshmi K, Syamala P, *Harmonic index of graphs with more than one cut –vertex*, Ars Combinatoria, 135 (2017) 283-298,.

6. Amalorpava Jerline J, Benedict Michaelraj L, *On harmonic index and diameter of unicyclic graphs*, Iranian Journal of Mathematical Sciences and Informatics, 11(1) (2016), 115-122 .

7. Amalorpava Jerline J, Dhanalakshmi K, Benedict Michaelraj L, *The first and the second Zagreb indices of the generalized Mycielskian of graph*, Electronics Notes in Discrete Mathematics,53 (2016) 239-358.

8. Amalorpava Jerline J, Benedict Michaelraj L, *On a conjecture of Harmonic Index and Diameter of Graphs*, Kragujevac Journal of Mathematics, 40(1) (2016), 73-78.

9. Amalorpava Jerline J, Dhanalakshmi K, Benedict Michaelraj L, *Harmonic Index of Product Graphs*, Proceedings of National Conference on Analysis and Applied Mathematics, 85-90, ISBN: 978-93-84743-06-2.

10. Amalorpava Jerline J, Dhanalakshmi K, Benedict Michaelraj L, *The second and third minimum harmonic index of trees*, Proceedings of National Conference on Discrete Mathematics, 6-11.

11. Amalorpava Jerline J, Dhanalakshmi K, Benedict Michaelraj L, *Harmonic Index of Bridge and Chain Graphs*, International Journal of Mathematics and its Applications, 5 (1-C) (2017), 275-284.

12. Dhanalakshmi K, Amalorpava Jerline J, Benedict Michaelraj L, *Dichromatic Polynomial Of Product Digraphs*, Electronic Notes in Discrete Mathematics,53 (2016) 165-172.

13. Dhanalakshmi K, Amalorpava Jerline J, Benedict Michaelraj L, *Colouring of Digraph*, Proceedings of National Conference on Analysis and Applied Mathematics, 91-94 ISBN: 978-93-84743-06-2.

14. Dhanalakshmi K, Amalorpava Jerline J, Benedict Michaelraj L, *Uniquely Colourable Digraph,* Proceedings of National Conference on Discrete Mathematics, 1-5.

15. Dhanalakshmi K, Amalorpava Jerline J, Benedict Michaelraj L, *First Modified Zagreb Indices of Unicyclic Graphs with a given number of pendant vertices*, International Journal of Mathematical Archive, 7(4) (2016), 151-153.

16. Dhanalakshmi K, Amalorpava Jerline J, Benedict Michaelraj L, *Modified and Multiplicative Zagreb Indices on Graph Operations*, Journal of Computer and Mathematical Sciences, 7(4) (2016), 225-232.

17. Dhanalakshmi K, Amalorpava Jerline J, Benedict Michaelraj L, *Modified Zagreb Index of Some Chemical Structure Trees*, International Journal of Mathematics and its Applications, 5 (1-C) (2017), 285-290.

18. Litta E, Amalorpava Jerline J, Dhanalakshmi K, Benedict Michaelraj L, *Modified Zagreb Indices of Bridge Graphs*, International Journal of Mathematical Archive, 8(3) (2017), 86-91.

19. J. Felix, R. Lawrence Joseph Manoharan, L. Benedict Michael Raj, S.K.Ayyaswamy, Single Chromatic Transversal Domatic Number of Graphs, International Journal of Innovative Science, Engineering & Technology, 4 (7) (2017) 352-355.

20. J. Felix , E. Litta and L.Benedict Michael Raj, Changing and Unchanging Properties of Single Chromatic Transversal Domination Number of Graphs, International Journal of Mathematics Trends and Technology, 52(4) (2017) 262-266.

21. Jai Roselin. S, Benedict Michael Raj.L, T-Coloring of Certain Non Perfect Graphs, Journal of Applied Science and Computations, VI(II) (2019) 1456-1468 .

22. Gency Joseph, L.Benedict Michael Raj, K.A.Germina, Characterization of Topologically 1-uniform Dcsl Graphs and Learning Graphs, Research and Reviews: Discrete Mathematical Structure 5(5) (2019) 2394-1979.

23. Gency Joseph, L.Benedict Michael Raj, K.A.Germina, Charecterization of Span of Base B-induced 1.uniform dcsl Graphs, International journal of Applied Mathematics(32) (2019)1314-8060.

24. Gency Joseph, L.Benedict Michael Raj, K.A.Germina , Characterization of 1-uniform Dcsl Graphs and Learning Graphs,Italian journal of pure applied Mathematics (2019) 2239-0227

PhD and M.Phil Guidance:

Ph.D: Completed- 2   Guiding – 6;

M.Phil: Completed – 44   Guiding - 4

RESOURCE PERSON:

S.No.	Topic	Institutions	Place
1.	Domination in Graphs	Chidambaram Pillai College for Women	Trichy
2	Graph and its Applications	Holy Cross College	Trichy
3.	Linear Spaces	Holy Cross College	Trichy
4.	Graph Theory	Saranathan College Engineering	Trichy
5.	Application of Mathematics	Idhaya College for Women	Trichy

MEMBER IN ACADEMIC BODIES:

S.No.	Name of the Body	Institution/University	Position
1.	Board of Studies of Mathematics	Fatima College, Madurai	Member
2.	Board of Studies of Mathematics	Holy Cross College, Trichy	Member
3	Board of Studies of Mathematics	St.Joseph's College, Trichy	Member
4.	Board of Studies of Mathematics	Selvam Arts and Science College,Namakkal	Member
5.	Board of Studies of Mathematics	Bharathidasan University	Chairman

NATIONAL/INTER-NATIONAL LINKAGE (PROFESSIONAL BODIES):

S.No.	Name of the Organization	Year of Regn	Regn No.	Country	International /National
1.	Ramanujam Mathematical Society-Life Member	2008	557	India	International

CONSULTING SERVICES:

1. Doctoral committee member (twice), SASTRA University, Vallam, Tanjore.

2. Prepared a Text Book for UG Allied Maths for Physics Major, Bharathidhasan University,

   CDE, Trichy.

3. Sanctioning of M.Phil & Ph.D programme, Morden Arts & Science College, Jayamkondam

IN-SERVICE TRAINING PROGRAM :

1. Orientation Program: Academic Staff College, Bharathidhasan University, Trichy, 1989.

2. Refresher Courses: Two courses in Academic Staff College , Bharathidhasan University,Trichy,1994 and 1999.

3. Summer Institute:
     1. "Statistics and Functional Analysis" Indian Statistical Institute, Calcutta , 1th -28th May 1986.
     2. "Functional Analysis and its Applications", St.Joseph's College, Trichy, 8th May- 4th of June 1988.