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National Institute of Technology,
Tiruchirappalli – 620015, Tamil Nadu, India.

Career Brief

After completing my M. Tech (IIT, Kharagpur) in Industrial Engineering and Operations Research, I joined DOMS, NIT Tiruchirappalli (then REC), in 1987 as a Research Associate. I am currently Professor, DOMS-NITT. I completed my Ph.D. from the Bharathidasan University, Tiruchirappalli. My academic and professional pursuits have over these years cut across several disciplines. My academic areas of interest include Machine Learning, Game Theory, Applied Statistics & Data Analysis, Operations Management, Project Management and Costing, Logistics and Supply Chain Management, Operations Research & Decision Sciences and Materials Management. I have also taught courses in these areas as visiting professor to several leading management institutes in India including the DOMS IIT-M. I have conducted executive training programmes. I have authored over **58 papers/articles** that have been published / presented at national and international journals and conferences. Awarded **Best paper Award** for the paper titled “*Strategic Decision Model for Technology Selection*” by the **ASME** (American Society of Mechanical Engineers) during May 2003. I have authored a **book on production management** for *Anna University Distance Learning programme*, a book on “**Service Quality in Indian Hospitals – perspectives from an emerging market**” by *Springer Publications* (ISBN 978-3-319-67888-7), a book on “**Resource Allocation Problems in Supply Chains**” by *Emerald Group Publishing Limited* in 2015 (ISBN 178560399X, 9781785603990) and A book on **Data Analytics** is getting ready for publication by *Pearson Publications*. I have also been on the editorial board of several journals and have been a reviewer for many others.

Work Experience

Primary Appointment	<ul style="list-style-type: none"> • Professor of Management Studies, DOMS, NIT-Tiruchirappalli (Since April 2007) • Assistant Professor, NIT-Tiruchirappalli (1995-2007) • Lecturer, NIT-Tiruchirappalli (1988-1995) • Sr. Research Associate, NIT-Tiruchirappalli (1988-1988) • Research Associate, NIT-Tiruchirappalli (1987-1988)
Department / Institution	<ul style="list-style-type: none"> • Nodal Officer, NIT-Tiruchirappalli (Since 2015) • Dean – Institute Development, NIT-Tiruchirappalli (2012 to 2015)

positions	<ul style="list-style-type: none"> • Head of the Department, DOMS, NIT-Tiruchirappalli (28-11-2007 to 10-02-2011) • Head of the Department, DOMS, NIT-Tiruchirappalli (04-02-2004 to 21-12-2005) • Head of the Department, DOMS, NIT-Tiruchirappalli (1991 to 1993)
Teaching Experience	<ul style="list-style-type: none"> • Taught on an average of 5 Courses every year for the last 5 years • Consistently rated as the best faculty by the MBA class several times.
Research Experience	<ul style="list-style-type: none"> • Published 7 SCI papers • Published 24 Scopus Indexed Journals • Have over 19 publications in peer reviewed Journals • 3 papers in National Academic / Professional Journals • 5 papers in Conference proceedings • Guided 9 Ph.D., 18 Ph.D. research is ongoing and over 300 MBA Research Thesis.
Extended Professional Activities	<ul style="list-style-type: none"> • Acted as Director In-charge at NIT Trichy, during the absence of Director for the period of 7 days in 2013, 94 days in 2014 and 43 days in 2015. • I have coordinated 5 development programs • I have been a member on various boards, committees and editorship in journals

Tasks/Responsibilities undertaken as Nodal Officer (SC, ST, OBC, PwD and Minorities) at NIT- T

Activities as a Nodal Officer

- Various welfare schemes are implemented for SC/ST/PwD students and staff members of NIT Trichy SCSP and TSP plan based on the communication from MHRD.
 - The tuition fee is waived for SC/ST students under SCSP and TSP plan.
 - Soft skill training to both UG and PG students belongs to SC/ST and PwD.
- Periodical interaction with SC/ST students are organized for solving any issue related to academic and social.

Tasks/Responsibilities undertaken as Dean Institute Development at NIT- T

Activities Carried out as Dean - ID

- In charge of Hospital, Guest House, School, Transportation, SC/ST/OBC/Women Cell and PwD
- **Hospital**
 - Specialized Doctors were appointed for Cardio, Diabetes, Homeopathy, Dentist, Radiologist, Physiotherapist and Ayurvedic
 - Dental Chair for filling and scaling.
 - Hospital working hours extended to 24X7 with Life Saving Ambulance.

- Augmented Facilities – Auto counter, Minor OT, Fumigator & Wax bath, 55 Air Conditioned rooms.
- **Guest House**
 - 55 rooms were Air Conditioned.
 - Amenities arranged well equipped with two single cots, cushioned chairs, study table, shoe racks, coat stand, kettles, LED TV and attached restrooms.
 - On-site Facilities: Doctor-on-call, round-the-clock room service, Wi-Fi service, laundry, 24 hours hot & cold water supply, power back-up and travel desk, 2 state of art rooms - hosted our Honourable President and our Governor, 2 common rooms and a conference hall-gathering/meeting.
- **School**
 - NIT, Nursery School has been renovate.
 - Fencing has been made on all the sides of NIT, Nursery School for safety of the Kids.
 - Salary (50%) hike has been made with the patron of Director for all the staff of school.
 - New UPS has been procured to solve the problems of Electricity.
- **Transport**
 - Shuttle bus service was arranged within the campus for every one hour, from Admin block covering all Hostels.
 - During Festival holidays and long holidays the bus trip arranged morning and evening from junction to NITT and from NITT to junction.
 - School services are provided for wards of Staff on payment.
 - Buses to pick up and drop all our staff both in the morning and evening has become operational.
- **SC/ST/OBC/Women Cell**
 - Research projects are sanctioned to faculty members belong to SC/ST and PwD under Scheduled Caste Sub Plan (SCSP), Tribal Sub Plan (TSP) and Persons with Disabilities (PwD)
 - Intern with scholarship is provided to the SC/ST/PwD student under the SCSP, TSP and PwD plan
 - Special lectures are arranged for week SC/ST/PwD students under SCSP and TSP plan
 - Specific attention is given to SC/ST/PwD students on various difficult subjects under SCSP and TSP plan
 - Training program on preparation of GATE and CAT for SC/ST students under SCSP and TSP plan
 - Training programme on Communication skill development for employees and wards
 - Transport facility has been arranged for those who are residing outside the campus.

- Organized Health Awareness Camp, physiotherapy and Yoga programme periodically
- Health and Fitness practice session arranged for Women employees every week
- Internal Complaint committee is formed to handle the women harassment issues.
- Women Harassment Cell is functioning to sort-out the harassment related issues

- **PwD Cell**

- Temporary conveyance facilities (auto rickshaw) have been arranged for PH/PwD Students within the campus from Hostel to Lecture Hall complex, Library and Hospital and the expenditure is borne by the institute.
- Any welfare measures related to PH/PwD students will be taken care.
- Temporary residential Quarters have been provided for a period of 3 to 6 months to stay along with their parents on medical grounds.

Tasks/Responsibilities undertaken as HoD at DOMS, NIT-T

Activities Carried out as HoD

- Instrumental in bringing GD & PI as part of MBA student selection process during 1992-93.
- Conducted & coordinated REC All India MBA Entrance Examination, GD & PI
- Instrumental in bringing in the trimester pattern for MBA during 1992-1993.
- Instrumental in bringing Business Analysis as a specialization in MBA during 2007-11.
- Under my stewardship, DOMS has been selected as an “Outstanding B-School (South)” for the National B School Award from Star News for the year 2010.

Tasks/Responsibilities undertaken as Teaching Faculty at DOMS, NIT-T

Curriculum Development

- New subjects introduced: Game Theory, Machine Learning, Data Analysis, Supply Chain Management, Logistics Management, Enterprise Resource Planning, Advanced Materials Management, Production Planning and Control.
- Syllabus revisions were done for all the subjects in the Operations Management area.

Innovative Teaching Method

- Introduced ‘Marathon Task Analysis’ as a part of evaluation for my core subjects.
- Hands on learning for Machine Learning Techniques and Data Analysis, where the students model the data analysis problem on computers and use large datasets to learn about 15 core data analysis tools covering Multiple Regression, Conjoint Analysis, Principal Component Analysis, Canonical Correlation, Multidimensional Scaling, Cluster Analysis, Discriminant Analysis, Factor Analysis,

Support Vector Machines among many others

Other Notable Academic contribution

- The paper titled “*Strategic Decision Model for Technology Selection*” was selected as one the best paper for Technology selection by the ASME (American Society of Mechanical Engineers) during May 2003.
- The book on “*Data Analysis for Business Decision*” is almost to be completed. This book is shortly in the process of publication by Pearson Education, India.
- The Solution Manual has been prepared for the reputed book on “*PROJECT: Planning, Analysis, Selection, Financing, Implementation and Review*” Written by renowned author Dr.Prasanna Chandra and it is available online.
- A detailed suggestion has been given to modify the chapter on Credit management in the famous management text book “*Financial Management – Theory and Practice*” written by well-known author Dr. Prasanna Chandra.
- Received an appreciation letter and consultancy was sought by Mr. J.K. Ghose, Additional Chief Engineer, M.N. Dastur & Co Ltd after studying my article titled – “*Economic Justification of FMS*” (IIIE Journal volume XXVII number 6 of June 1998)
- An appreciation letter of appreciation was given by the publisher Palgrave Macmillan for the article, “*An empirical model for brand loyalty measurement*”, published in Journal of targeting, measurement and analysis for marketing.

Task/Responsibilities undertaken as Researcher

Papers in International Academic/ Professional Journals

SCI Journals:

1. Punniyamorthy, M., & Sridevi, P. (2017). Influence of fuzzy index parameter on new membership function for an efficient FCM based FSVM classifier. *Journal of the National Science Foundation of Sri Lanka (2017)*
2. Punniyamorthy, M., Mathiyalagan, P., & Parthiban, P. (2011). *A strategic model using structural equation modeling and fuzzy logic in supplier selection*. Expert Systems with Applications, 38(1), Pp- 458-474.
3. Parameshwaran, R., Srinivasan, P. S. S., Punniyamorthy, M., & Charunyanath, S. T. (2009). *Integrating fuzzy analytical hierarchy process and data envelopment analysis for performance management in automobile repair shops*. European Journal of Industrial Engineering, 3(4), Pp- 450-467.

4. Punniyamoorthy, M., & Ragavan, P. V. (2005). Justification of automatic storage and retrieval system (AS/RS) in a heavy engineering industry. *The International Journal of Advanced Manufacturing Technology*, 26(5-6), Pp- 653-658.
5. Ganesh, K., & Punniyamoorthy, M. (2004). Optimization of continuous-time production planning using hybrid genetic algorithms-simulated annealing. *The International Journal of Advanced Manufacturing Technology*, 26(1-2), Pp- 148-154. (Impact Factor = 1.128).
6. Ragavan, P., & Punniyamoorthy, M. (2003). A strategic decision model for the justification of technology selection. *The International Journal of Advanced Manufacturing Technology*, 21(1), Pp- 72-78.
7. Aravindan, P., & Punniyamoorthy, M. (2002). Justification of advanced manufacturing technologies (AMT). *The International Journal of Advanced Manufacturing Technology*, 19(2), 151-156.

Scopus Indexed Journals:

8. Punniyamoorthy, M., & Sridevi, P. (2017). "Evaluation of a FCM-based FSVM classifier using fuzzy index". *International Journal of Enterprise Network Management*, 8(1), Pp- 14-34.
9. Antonette Asumptha, Punniyamoorthy.M, (2017), "A Study on Knowledge Sharing Practices among Academicians in India", *Knowledge Management & E-Learning: An International Journal*. (In Print)
10. Ande Raja Ambedkar, Punniyamoorthy.M, Thamaraiselvan.N, (2017), "Modeling Brand Resonance Score (BRS) –An Application in Financial Services". *Journal of Modelling in Management* (In Print)
11. Ande Raja Ambedkar, Punniyamoorthy.M, Thamaraiselvan.N, (2017), "Brand Resonance Score for CBBE Model-An Application in Financial Services." *Benchmarking: An International Journal*, Vol. 24 Issue: 6, pp.1490-1507
12. Punniyamoorthy, M., & Sridevi, P. (2016). "Identification of a standard AI based technique for credit risk analysis". *Benchmarking: An International Journal*, 23(5), Pp- 1381-1390.
13. Sivakumar, P., Ganesh, Punniyamoorthy, M., Lenny Koh, S.C., (2013), "Genetic Algorithm for Inventory Levels and Routing Structure Optimization in Two Stage Supply Chain", *International Journal of Information Systems and Supply Chain Management*, 6(2), Pp- 33-49, April-June
14. M.Punniyamoorthy, Rani Susmitha and K.Ganesh (2013), "A study on the impact of demographics, clinical quality variables and service quality factors on cardiac patient satisfaction in India" *International Journal of Operational Research*.

15. Punniyamoorthy, M., Tamaraiselvan, N., Manikandan, L. (2013). *Assessment of supply chain risk: Scale development and validation*”, Benchmarking: an international Journal, Vol.20, No.1, Pp- 79-105.
16. Punniyamoorthy, M.,Thoppan, J.J.(2013) *Market manipulation and surveillance – a survey of literature and some practical implications*, International Journal of Value Chain Management, Vol. 7, No. 1
17. Punniyamoorthy, M.,Thoppan, J.J.(2013) *ANN-GA based model for Stock Market Surveillance*”, Journal of Financial Crime, Emerald Publications , Vol. 20 No. 1, pp. 52-66.
18. Malairajan, R.A., Ganesh, K., Punniyamoorthy, M. and Anbuudayasankar, S.P. (2013) "Decision Support System for Real Time Vehicle Routing in Indian Dairy Industry-A Case Study", International Journal of Information System and Supply Chain management, Vol. 6, No. 3 6(4), 77-101.
19. Punniyamoorthy, M., Mathiyalagan, P., & Lakshmi, G. (2012). *A combined application of structural equation modeling (SEM) and analytic hierarchy process (AHP) in supplier selection*. Benchmarking: An International Journal, 19(1), Pp- 70-92.
20. Sivakumar, P., Ganesh, K., Anbuudayashankar, S.P., Punniyamoorthy, M., Lenny Koh, S.C., (2012), "*Heuristic approach for balanced allocation problem in logistics: a comparative study*", International Journal of Operational Research, Vol. 14, No. 3, 2012, Pp- 255 - 270
21. Punniyamoorthy, M., Mahadevan, B., Shetty, N.K., Lakshmi, G. (2011), "*A framework for assessment of brand loyalty score for commodities*" Journal of Targeting, Measurement and Analysis for Marketing 2011, Vol. 19, 3 / 4, Pp- 243–260
22. Parameshwaran, R., Srinivasan, P. S. S., &Punniyamoorthy, M. (2010). *An integrated approach for performance enhancement in automobile repair shops*. International Journal of Business Excellence, 3(1), Pp- 77-104
23. Punniyamoorthy, M., &Murali, R. (2010). *Identification of benchmarking service units through productivity and quality dimensions*. International Journal of Business Performance Management, 12(2), Pp- 103-122.
24. Parthiban, P., M. Punniyamoorthy, K. Ganesh and G.R. Janardhana, (2009). "*A model for selection of suppliers by comparison of two clustering algorithms*". Int. J. Applied Decision Sci., 2: Pp- 422-443.
25. Parthiban, P., Punniyamoorthy, M., Ganesh, K., &RangaJanardhana, G. (2009). *A hybrid model for sourcing selection with order quantity allocation with multiple objectives under fuzzy environment*. International Journal of Applied Decision Sciences, 2(3), Pp- 275-298.

26. Punniyamoorthy, M., &Murali, R. (2009). *A framework to arrive at a unique performance measurement score for the balanced scorecard*. International Journal of Data Analysis Techniques and Strategies, 1(3), Pp- 275-296.
27. Parthiban, P., Punniyamoorthy, M., Ganesh, K., &RangaJanardhana, G. (2009). *Bidding process and integrated fuzzy model for global sourcing based on customer preferences*. International Journal of Electronic Customer Relationship Management, 3(1), Pp- 18-37.
28. Parameshwaran, R., Srinivasan, P. S. S., &Punniyamoorthy, M. (2009). *Modified closed loop model for service performance management*. International Journal of Quality & Reliability Management, 26(8), Pp- 795-816.
29. Punniyamoorthy, M., &Murali, R. (2008). *Balanced score for the balanced scorecard: a benchmarking tool*. Benchmarking: An International Journal, 15(4), Pp- 420-443.
30. Parthiban, P., Punniyamoorthy, M., Ganesh, K., & Parthasarathi, N. L. (2008). *Logical approach for evaluation of supply chain alternatives*. International Journal of Management and Decision Making, 9(2), Pp- 204-223.
31. Punniyamoorthy, M. Prasanna Mohan Raj.M (2007) “*An empirical model for brand loyalty measurement*” Journal of Targeting, Measurement and Analysis for Marketing, 15, 222 – 233. doi: 10.1057/palgrave.jt.5750044.

Non – SCI Journals:

32. Dr. M. Punniyamoorthy G. Lakshmi Dr. S. Chandramohan (2015). “*A methodology for identifying significant factors in supplier selection: a context based approach*”, International Journal of logistics and supply chain management Vol 4, No 2 Pp- 2319-9032.
33. Dr. M. Punniyamoorthy G. Lakshmi Dr. S. Chandramohan (2015). “*A methodology to prioritize the constructs in supplier selection- An application in Engineering Industry*, Global Journal for Research Analysis, Vol 4(5), pp 349-351.
34. Punniyamoorthy, M., & Lavanya, V. (2015). *A conglomerate model for identification of the interaction between job satisfaction and job performance in a service institution-a context bound approach*. International Journal of Higher Education and Sustainability, 1(1), Pp- 66-87.
35. Murugesan Punniyamoorthy and Lavanya Vilvanathan (2013) “*A study on job satisfaction in service institution – context and model bound approach*”, International journal of Logistics Economics and Globalization, Vol.5, No.4, Pp- 269-291 (2013).
36. Mathiyalagan, P., Punniyamoorthy, M., Sezhiyan, D. M., &Meena, M. (2013). *An Empirical investigation on the impact of supply effort management and supplier selection on business*

performance using SEM approach. Journal of Contemporary Research in Management, 5(2).

37. Kiruthika, A., Chandramohan, S., Punniyamoorthy, M., & Latha, S. (2013). “*Fuzzy-DEA as a diagnostic tool to measure and compare the performance of public and private banks including foreign banks in India*,”. International Journal of Logistics Economics and Globalisation, Volume 5, Issue 3.
38. Kiruthika, A., Chandramohan, S., Punniyamoorthy, M., & Latha, S. (2012). *Evaluation of service quality of banks—a fuzzy approach*. International Journal of Enterprise Network Management, 5(4), Pp- 333-354.
39. Malairajan, R. A., Ganesh, K., Nallasivam, K., & Punniyamoorthy, M. (2012). “*Comparison of fuzzy C-mean clustering and 0-1 integer programming model for employee routing problem*”. International Journal of Value Chain Management, 6(4), Pp- 303-330.
40. Punniyamoorthy, M., & Thoppan, J. J. (2012). *Detection of stock price manipulation using quadratic discriminant analysis*. International Journal of Financial Services Management, 5(4), 369-388.
41. Punniyamoorthy, M., & Shetty, N. K. (2011). *A study of customers’ brand preference pattern and factors influencing brand preference in a commodity product*. International Journal of Indian Culture and Business Management, 4(5), Pp- 523-542.
42. Manikandan, L., Thamaraiselvan, N., & Punniyamoorthy, M. (2011). *An instrument to assess supply chain risk: establishing content validity*. International Journal of Enterprise Network Management, 4(4), Pp- 325-343.
43. Parthiban, P., Mathiyalagan, P., Punniyamoorthy, M., & Dominic, P. D. D. (2010). *Optimisation of supply chain performance using MCDM tool—a case study*. International Journal of Value Chain Management, 4(3), Pp- 240-255.
44. Parthiban, P., Punniyamoorthy, M., Mathiyalagan, P., & Dominic, P. D. D. (2009). *A hybrid decision model for the selection of capital equipment using AHP in conjoint analysis under fuzziness*. International Journal of Enterprise Network Management, 3(2), Pp- 112-129.
45. Parthiban, P., Punniyamoorthy, M., Ganesh, K., & Janardhana, G. R. (2009). *Development and assessment of modified VIKOR method for multi-criteria single sourcing in supply chain*. International Journal of Business and Systems Research, 4(1), Pp- 94-116.
46. Parthiban, P., Punniyamoorthy, M., & Dominic, P. D. D. (2008). *An integrated model for Optimization of production-distribution inventory levels and routing Structure for a multi-period, multi-product, bi-echelon supply chain*. International Journal of Applied Management and

Technology, 6(2).

47. Parthiban, P., Punniyamoorthy, M., Janardhana, G. R., & Ganesh, K. (2008). *Supply chain architectural framework and supplier relationship model for customer facing business*. International Journal of Electronic Customer Relationship Management, 2(4), Pp 332-363.
48. P. Mathiyalagan M. Punniyamoorthy, P.Parthiban(2009) “An integrated model for a class of sourcing problem using multiple regression analysis and analytical hierarchy process.” International Journal of Enterprise Network Management. Vol. 3, No. 4. Pp- 374-394.
49. P. Mathiyalagan M. Punniyamoorthy, S. Sudhakar (2009) “A supplier selection construct for exploring supplier selection production in Indian manufacturing company”, Journal of contemporary research in management, vol .1, No.4. Pp-123
50. M.Punniyamoorthy, Rani Susmitha and K.Ganesh (2012) “A casual model to assess the cardiac patient satisfaction – A comparative study of speciality cardiac hospitals and multispecialty hospitals”, International Journal of Information Logistics Economics and Globalization, Volume 4, Issue 4.

Papers in National Academic / Professional Journals

51. “A scheduling Technique for the service institutions”, Journal of Industrial Engineering, NITIE, Mumbai,
52. “Managing time ‘one should first plan the work and then work the plan’”. Journal of Industrial Engineering, NITIE, Mumbai,
53. “Economic justification of FMS”. Journal of Industrial Engineering, NITIE, Mumbai

Seminars & Conference Papers

54. “FCM based FSVM classifier using Fuzzy Index on credit risk evaluation”, International conference on Business Analytics and Intelligence (ICBAI 2013), IIM, Bangalore, December 11 -13, 2013.
55. “DINLIP: Model to Solve Integrated Resource Allocation and Routing Problem with Bound and Time Window”, International Conference on Modeling, Optimisation and Computing (ICMOC 2012), Noorul Islam University, Kumaracoil, TamilNadu, India, April 10 – 11, 2012.
56. “Framework for Knowledge Management Need Assessment”, International Conference on Modeling Optimisation and Computing- (ICMOC-2012),Procedia Engineering 38(2012) Pp- 3668 – 3690

57. "Service quality model to measure customer satisfaction", Proceedings of the International Conference on Delivering Service Quality: Managerial Challenges for the 21 St Century, I.I.M., Ahmadabad. December, 1999

58. "A model to measure customer satisfaction", Total Quality management, sponsored by UGC, SNR Sons College, Coimbatore (1999).

Working Papers

- Game Theory
- Optimization Techniques
- Classification Techniques
- HR Techniques
- Heuristic to Solve Mixed Arc Routing Problem
- Heuristic for Multi Commodity Network Flow Problem
- Heuristic for Multi Employee Routing Problem
- Simulation Study for Blood Bank Logistics

Books/Book Chapters

- K. Ganesh, Sanjay Mohapatra, R. A. Malairajan and M. Punniyamoorthy "Resource Allocation Problems in Supply Chains" Emerald Group Publishing Limited, 2015. ISBN 178560399X, 9781785603990)
- Mohapatra, S., Ganesh, K., Punniyamoorthy, M., and Susmitha, R." Service Quality in Indian Hospitals – perspectives from an emerging market" Springer Publications, 2018.
- *Production Management*, Anna University, Chennai, MBA distance Education Program
- *Data Analysis for Business Decision*, getting ready for publication by Pearson Education, India.
- Solution Manual for the book PROJECTS: Planning, Analysis, Selection, Financing, Implementation, and Review by Prasanna Chandra.

Extended Professional Responsibilities

Position in Academic Councils and Committees

- Member, **NBA Accreditation** Committee
- Member, **UGC Accreditation** Committee

- Member of **Expert Committee** by UGC for Accreditation at Arni University, Kangra.
- Head of **Expert Committee** by UGC for Accreditation at DAV University, Punjab.
- Member, **AICTE Inspection** Committee
- Member, Faculty Selection Committee, **NIT Warangal**
- Member, Faculty Selection Committee, **NIT Calicut**
- Member, Faculty Selection Committee, **NIT Uttarakhand**
- Member, Faculty Selection Committee, **Central University – Hyderabad**
- Member, Faculty Selection Committee, **Central University – Thiruvananthapuram**.
- **Chairman of Inspection Committee** for Grant of Permanent Affiliation, Anna University – Chennai.

Positions at NIT Tiruchirappalli

- Member of **Advisory**
- **Committee** on faculty Recruitment (ACoFAR) at NIT- Trichy.
- Member of **Selection Committee** for the posting of Registrar.
- Member of **recruitment committee** for faculty promotion and in handling issues pertaining to NMR with Chairperson.
- Member of **Equivalence Committee** for framing recruitment rules at entry level for Non- Teaching Staff.
- Member of **grievance committee** appointed by BOG
- **Special recruitment** drive for PwDs screening committee.
- Member of **Committee for Stipend payment** for M.Tech students.
- Member of interview committee for **Apprenticeship Trainee**.

Editorship in Journals – Current

- *Editor in Chief*, International Journal of Decision Making in Supply Chain and Logistics, International Science Press, Serial Publications
- *Guest Editor - Special Issue*, Theme: “Special Issue on Application of Multivariate Techniques in Decision-Making Models for Customer Service”, International Journal of Electronic Customer Relationship Management, Volume 4 - Issue 4 – 2010, Inderscience Publishers.
- *Member on the Editorial board*, International Journal of Logistics and Supply Chain Management, International Science Press, Serial Publications

- *Member on the Editorial board*, International Journal of Operations, Systems and Human Resource Management, International Science Press, Serial Publications

Reviewer in International Journals

Elsevier: European Journal of Operations Research

Academic Journals (Lagos): African Journal of Business Management.

My Dissertation

Justification of Advanced Manufacturing Technology for Doctorate in Business Management

Dissertations Guided

The Ph.D dissertations completed with me as Guide:

- Developing a Model to measure Brand Loyalty - M. Prasana Mohan Raj
- Unified heuristics for a class of sourcing problems in supply chain– P. Parthiban
- Supplier Selection through Structural Equation Modeling and fuzzy Logic - P. Mathiyalagan
- A Study on the Performance Management System - Murali R
- A study of customers brand preference pattern in commodity market with a special reference to cement industry – Nandha Kishore Shetty
- Detection of Stock Price Manipulation: Developing an Effective Model For Detecting Trade BasedMarket Manipulation – Jose Joy Thoppan
- A study on Service quality of cardiac hospitals in India: Model based approach - Rani Susmitha.
- Fuzzy Support Vector Machines for Credit Risk Evaluation, Sridevi.
- Framework on Job Satisfaction, Lavanya.

The Ph.D dissertations on going, with me as guide

- Opinion Mining using Fuzzy Support Vector Machine - A.Santhosh Kumar, Since 2012
- Knowledge Management in Health care industry - AntonneteAsumppatha, since 2014
- Psychological Empowerment of Faculty - M.Prabha, since 2014
- Kernel Methods in SVM – S. Manochandar, since 2014
- Production and Operation Management – M. Ramanathan, since 2014
- Time Series Analysis - M.I Nafeesathul Basariya, since 2015
- Classification Techniques – M. Sivaguru, since 2015
- Spare parts Inventory Management – S. Kathirvel, since 2015
- Equilibrium selection in Non-zero sum two person game - Sarin Abraham, since 2015
- Classification Techniques – M. Vijayprabhagar, since 2015
- Sourcing in Materials Management – A. Maruthamuthu, since 2016

- Logistics Network Planning – B. Saravanan, since 2016
- Rural Banking – S. Balu, since 2016
- Service Level Determination in Supply Chain – R.Sundar, since 2016
- Comprehensive Frame work on Quality in Health Care – S. Niranjani, since 2017
- Activity Based Costing in Software Project Management – G. Kala Nisha, since 2018

In addition to the Doctoral Program, I have also guided over a 300 MBA projects and around 8 ME Industrial Engineering Dissertations.

Examiner for Thesis

- Ph.D Thesis, IIT Dhanbad
- Ph. D. Thesis, Anna University, Chennai
- Ph. D. Thesis, JNTU, Hyderabad
- Ph. D. Thesis, Visvesvaraya Technological University, Belagavi, Karnataka.
- Ph. D. Thesis, Bharathiar University, Coimbatore
- Ph. D. Thesis, Sambalpur University, Sambalpur, Orissa
- Ph. D. Thesis, Alagappa University, Karaikudi
- Ph. D. Thesis, Manonmaniam Sundaranar university, Tirunelveli

Software's Developed

- Detection of Stock Price Manipulation using Genetic Algorithm and Neural Network

Executive Development Programs

Coordinated:

- “Nuances of Support Vector Machine”, Department of Management Studies, NIT, Tiruchirappalli, October 5th – 7th 2012.
- “Data Mining and its Applications”, Department of Management Studies, NIT Tiruchirappalli, October 2nd 2011.
- “*Emerging Trends in Supply Chain and Changing Business Environment*”, Department of Management Studies, NIT Tiruchirappalli, Jan 22-23, 2011
- “*MDP Program on Data Analytics for Business Decisions*”, Department of Management Studies, NIT Tiruchirappalli, Jan 21-26, 2006

Resource Person for:

- “Business Analytics and Intelligence”, Department of Computer Application, CIT Coimbatore, April 24th, 2017
- “Data Analytics Workshop”, Department of Computer Science & Engineering, NIT Tiruchirappalli, Jun 8th, 2012
- Training program for Promotee Executives, Bharat Heavy Electricals Limited (BHEL) Tiruchirappalli, November 11-16, 2002
- Training program for Promotee Executives, Bharat Heavy Electricals Limited (BHEL) Tiruchirappalli, October 21-26, 2002
- Training program for Executive Trainees, Bharat Heavy Electricals Limited (BHEL) Tiruchirappalli, February 17, 1997.

Sponsored or consultancy Projects:

Sl. No.	Title of the Project	Amount in Rs.	Funding Agency	Period	Remarks (Completed/ Ongoing)
1.	Cognitive Based Curriculum Development Tool For Emerging Areas Of Computer Engineering And Management Studies For Improving Teaching Learning Process		University Grants Commission (UGC) Under Obama Singh 21st Century Knowledge Initiative Grant, Govt. of India	2013-2016	Ongoing
2.	Deciphering the Dynamic Architecture Design from Music and developing software		MHRD, Govt. of India Under SCSP/TSP/ Sub plan	2014-2017	Ongoing (PATENT ACKNOWLEDGED)
3.	Data Mining - Opinion Mining		DEITY	2015-2020	Ongoing

Scholastic Record

Ph.D. in Management , Bharathidasan University, Tiruchirappalli

	I.C.W.A.I. – Inter The Institute of Cost and Works Accountant of India, Calcutta
	M. Tech. — Industrial Engineering & Operations Research Indian Institute of Technology, Kharagpur
	B. Tech. — Production Technology Madras Institute of Technology, Chennai
	B.Sc. – Mathematics Rajah Serfoji Govt. College, Thanjavur

ANNEXURE I

Courses Taught

- Machine Learning - This is an elective course at NIT, Tiruchirappalli, meant for students specialising in Data analytics but has a lot of cross functional applications and hence opted by students from Operations, Marketing and Finance Streams also. The course is designed to provide an in-depth understanding of complex models and algorithms which is used for predictive analytics
- Data Analytics – This is an elective course at NIT, Tiruchirappalli, meant for students specialising in Operations but has a lot of cross functional applications and hence opted by students from Marketing and Finance Streams also. The course is designed to provide an in-depth understanding of the modelling of data with special emphasis on multivariate techniques
- Advanced Materials Management – This is an elective course at NIT, Tiruchirappalli, meant for students specialising in Operations. The course is designed to provide a detailed view on the role of materials management in business, budgeting, inventory management, purchasing, quality and sources of supply
- Logistics Management – This is an elective course at NIT, Tiruchirappalli, meant for students specialising in Operations. The course is designed to provide an in-depth perspective into the world of logistics management focusing on materials management, distribution management, location and routing and scheduling, issues faced and customer service across various industries
- Production Planning and Control – This is an elective course at NIT, Tiruchirappalli, meant for students specialising in Operations. The course is designed to provide a good theoretical base on forecasting, facilities decision, aggregate planning, scheduling and process planning
- Supply Chain Management – This is an elective course at NIT, Tiruchirappalli, meant for students specialising in Operations. The course covers the fundamentals of supply chain management, supply chain planning, strategies, alliances, outsourcing, performance metrics, planning and managing inventories, distribution management and strategic cost management in a supply chain.
- Production and Operations Management – This is a compulsory course at NIT, Tiruchirappalli. The course is designed to provide a detailed view on the history of production management,

technology forecasting, environment, product design & development, process planning, plant location issues, plant layout and material handling principles, job design, job evaluation, purchasing and warehousing functions, vendor development and rating and value analysis.

- Project System Management – This is a compulsory course at NIT, Tiruchirappalli. The course is designed to provide a detailed coverage on projects covering understanding of the environment, life cycle, feasibility analysis – market, technical, financial and economic, economic appraisal, social cost, network techniques, multi project scheduling with limited resources, implementation, funds planning, performance, budgeting and control, tendering and contract administration, ecology and bio diversity issues and environmental impact assessment.
- Fundamental of Financial Accounting – This is a compulsory course at NIT, Tiruchirappalli. The course is designed to provide an introduction to concepts and conventions of accounting, accounting standards, journal, ledger and trial balance, final accounts, P&L, balance sheet and adjustments, depreciation, intangibles, inventory valuation etc.
- Advanced Financial Accounting – This is a compulsory course at NIT, Tiruchirappalli. The course is designed to provide inputs on company accounts – accounting for debt and Equity, company final accounts preparation, accounting for profits prior to incorporation, ratio analysis, fund / cash flow statement preparation, corporate governance and international accounting standards
- Cost and Management Accounting – This is a compulsory course at NIT, Tiruchirappalli. The course is designed to provide inputs on functional budget, cost ascertainment allocation and control, reconciliation of cost & final account, process costing, working in process costing, joint products, by products costing, cost accounting methods - job, batch, and contract, standard costing, utility of costing for managerial decision.
- Quantitative Techniques– This is a compulsory course at NIT, Tiruchirappalli. The course is designed to provide inputs on statistics, probability theory, binomial, Poisson and normal, decision making under certainty, uncertainty and risk, sampling and sampling distribution, estimation, testing hypotheses and non-parametric methods