

1. Name of the Faculty : Dr. **S. RAMKANTH**
2. Qualification : M. Pharm., Ph.D.
3. Faculty ERP ID : P0039
4. Designation : Professor
5. Department : PHARMACEUTICS
6. Date of joining : 01-07-2019
7. Official E-Mail ID : ramkanth@kcp.edu.in



Work Experience:

S. No.	Professional	Subject	Institutions	University	Month & Year
1.	Professor & Head	Pharmacy	Karpagam College of Pharmacy, Coimbatore, Tamil Nadu	The Tamil Nadu Dr. M.G.R. Medical University, Chennai	5 years & 9 Months (Currently Working) As on Mar 2025
2.	Professor	Pharmacy	Annamacharya College of Pharmacy, Rajampet, Andhra Pradesh	Jawaharlal Nehru Technological University, Anantapur	4 years 3 months
3.	Associate Professor	Pharmacy			3 years
4.	Assistant Professor	Pharmacy			5 years

Educational Details:

S. No.	Degree	Subject	College/School	University	Month & Year of Passing
1.	Ph. D	Pharmaceutical Sciences	Part time	Jawaharlal Nehru Technological University, Hyderabad, Telangana	Dec 2014
2.	PG	Pharmaceutics	K. M. College of Pharmacy, Madurai	The Tamil Nadu Dr. M.G.R. Medical University, Chennai	Mar 2007
3.	UG	Pharmacy			Sep 2004

8. Teaching Experience (in years) : 18 years (As on Mar 2025)
9. Industrial Experience (in years) : Nil
10. No. of Publications : SCI / WoS: 08; Scopus: 38; Peer reviewed: 26
11. No. of Papers Presented in Conferences : International: 02; National: 04
12. No. of Conference/Seminars attended : 10
13. No. of Research Grants / Projects received : Nil
14. Patents : Published: 03; Granted: 02
15. No. of Consultancy services offered : Two

No. of Publications

1. Zenli Cheng, Ashok Kumar Janakiraman, **Ramkanth Sundarapandian**, Sinouvassane Djearmane, Hanish Singh Jayasingh Chellammal, Haja Nazeer Ahamed, Saminathan Kayarohanam. Precision engineering of vinblastine-loaded zinc oxide nanoparticles through statistical experimental design. *Nano-Structures & Nano-Objects* 42 (2025) 101472. <https://doi.org/10.1016/j.nanoso.2025.101472>
2. Zenli Cheng, Zi Yin Wong, **S. Ramkanth**, Cheng Wan Hee, Mohamed Saleem TS, Saminathan Kayarohanam, M Yasmin Begum, Kushagra Khanna, Abhishek Kumar, Ashok Kumar Janakiraman. Colchicine-capped ZnO nanoparticles: Elucidation of their cytotoxicity potential against MDA-MB 231 cancer cells. *OpenNano*, Volume 18, 2024, 100210, ISSN 2352-9520,
3. Janakiraman, A. K., Yap, J., **Sundarapandian, R.**, Liew, K. B., Subramaniyan, V., & Kayarohanam, S. (2024). Fabrication and characterization of cocoa butter-based caffeine fast-melting tablets. *Therapeutic Delivery*, 1–11. <https://doi.org/10.1080/20415990.2024.2354115>
4. Starlin Chellathurai, M., Mahmood, S., Mohamed Sofian, Z., Wan Hee, C., **Sundarapandian, R.**, Ahamed, H. N., ... Janakiraman, A. K. (2023). Biodegradable polymeric insulin microneedles – a design and materials perspective review. *Drug Delivery*, 31(1). <https://doi.org/10.1080/10717544.2023.2296350>
5. Tamilarasan N, Yasmin BM, Anitha P, Umme H, Cheng WH, Mohan S, **Ramkanth S**, Janakiraman AK. Box–Behnken Design: Optimization of Proanthocyanidin-Loaded Transferosomes as an Effective Therapeutic Approach for Osteoarthritis. *Nanomaterials*. 2022; 12(17):2954.
6. Liew KB, Janakiraman AK, **Sundarapandian R**, et al. A review and revisit of nanoparticles for antimicrobial drug delivery. *J Med Life*. 2022;15(3):328-335.
7. Mohamed JMM, Alqahtani A, Menaa F, Kayarohanam S, Fatease AA, Alqahtani T, Alamri A, El-Sherbiny M, **Ramkanth S**, Janakiraman AK. In Vitro Physical Characterizations and Docking Studies on Carvedilol Nanocrystals. *Crystals*. 2022; 12(7):988.
8. Sreeharsha, N.; Naveen, N.R.; Anitha, P.; Goudanavar, P.S.; **Ramkanth, S.**; Fattepur, S.; Telsang, M.; Habeebuddin, M.; Answer, M.K. Development of Nanocrystal Compressed Minitablets for Chronotherapeutic Drug Delivery. *Pharmaceuticals* 2022, 15, 311.
9. Liew KB, Janakiraman AK, **Sundarapandian R**, et al. A review and revisit of nanoparticles for antimicrobial drug delivery. *J Med Life*. 2022;15(3):328-335.
10. Mohamed JMM, Alqahtani A, Menaa F, Kayarohanam S, Fatease AA, Alqahtani T, Alamri A, El-Sherbiny M, **Ramkanth S**, Janakiraman AK. In Vitro Physical Characterizations and Docking Studies on Carvedilol Nanocrystals. *Crystals*. 2022; 12(7):988.
11. Sreeharsha, N.; Naveen, N.R.; Anitha, P.; Goudanavar, P.S.; **Ramkanth, S.**; Fattepur, S.; Telsang, M.; Habeebuddin, M.; Answer, M.K. Development of Nanocrystal Compressed Minitablets for Chronotherapeutic Drug Delivery. *Pharmaceuticals* 2022, 15, 311.
12. **S. Ramkanth**, P. Anitha, R. Gayathri, S. Mohan, Dinesh Babu. Formulation and design optimization of nano-transferosomes using pioglitazone and eprosartan mesylate for concomitant therapy against diabetes and hypertension. *European Journal of Pharmaceutical Sciences* 162 (2021) 105811.
13. Min Zhang, **Ramkanth Sundarapandian**, Mohan Sellappan, Kavitha Kasimayan & Nagendra Babu Mennuru. In Silico ADMET and Molecular Docking Study of Lead Molecules for Concomitant Treatment of Antihypertensive. *Lat. Am. J. Pharm.* 2021, 40 (6): 1211-9.
14. **Ramkanth S**, Aravind M, Gayathri R, Benedict Jose C, Swetha V, Mohan S. Formulation optimisation and characterisation of Azithromycin proniosome. *Int. J. Res. Pharm. Sci.*, 2021, 12(1), 477-486.
15. **S. Ramkanth**, Ashok Kumar Janakiraman, Saminathan Kayarohanam, Vetriselvan Subramaniyan, Sinouvassane Djearmane. Design and Development of Losartan Potassium Press Coated Tablets for Pulsatile Drug Delivery. *Journal of Global Pharma Technology*, 2021; 13 (1): 01-09.
16. Gayathri R, Benedict Jose C, **Ramkanth S**, Pradheesh Mohan S, Swetha V, Mohan S. Preliminary Characterization and Comparison of Mucilage from Leaves of Hibiscus Sabdariffa L. as a Tablet Binder. *Int. J. Res. Pharm. Sci.*, 2021, 12(1), 487-496.
17. **Ramkanth S**, Mohan S, Gayathri R, Swetha V, Joseph C. Benedict, Anitha P. QBD Based Novel Combinational Nanotransferosomes of Pioglitazone and Eprosartan Mesylate: Pharmacokinetic and Pharmacodynamic Studies. *Current Trends in Biotechnology & Pharmacy*. Apr 2020 Suppl, 37-37. 1p.
18. Benedict Jose C, Gayathri R, Prasanth RK, Swetha V, **Ramkanth S**, Mohan S. Investigation of Binding Efficacy of Pectin Isolated from Solanum betaceum Cav using Tableting Technology. *Journal of Global Pharma Technology*, 2020; 12 (12): 01-13.

19. Gayathri, R. Benedict Jose, C. Prince, R. **Ramkanth**, S. Mohan, S. Dinesh Babu. Fabrication of palatable medicated chocolate of salbutamol and ambroxol for pediatric delivery; Journal of Global Pharma Technology, 2020; 12 (11): 22-31.
20. A. Bharath Kumar, S. Mohan, R. Siva Sakthi, **S. Ramkanth**. A review on clinical pharmacokinetic and pharmacodynamic profile of Metformin. World Journal of Pharmaceutical Research. 2020; 9 (10): 557-568.
21. P Anitha, **S Ramkanth**, SV Satyanarayana. Development and validation of a new analytical RP-HPLC method for simultaneous determination of Glibenclamide and Atenolol in bulk. International Journal of Research in Pharmaceutical Sciences 2019; 10(3): 2433-2445.
22. **S. Ramkanth**, C. Madhusudhana Chetty, Y. Sudhakar, V.S. Thiruvengadarajan, P. Anitha, C. Gopinath. Development, characterization & invivo evaluation of proniosomal based transdermal delivery system of Atenolol. Future Journal of Pharmaceutical Sciences 2018; 4: 80-87.
23. P. Anitha, J. Bhargavi, G. Sravani, B. Aruna, **Ramkanth S**. Recent Progress Of Dendrimers In Drug Delivery For Cancer Therapy. Int. Jn. Of Appl. Pharmaceutics. 2018; 10(5): 34-42.
24. Ashok Kumar Janakiraman, Balan Sumathi, T Mohamed Saleem, **S Ramkanth**, P Odaya Kumar, Gopal Venkatachalam. Design and evaluation of Carvedilol nanocrystals sustained release tablets. Journal of Applied Pharmaceutical Science, 2017; 7 (4): 61-68.
25. **S. Ramkanth**, TSM Saleem, Thiruvengadarajan, C Gopinath. A Study on drug utilization and drug related problems among anti-ulcer patient admitted in teaching hospital. Value in Health, 9 (7); 2016; A838
26. **S. Ramkanth**, V S Thiruvengadarajan, C. Gopinath. Formulation and Development of Orodispersible Tablet of Baclofen by Effervescent Method. J. basic appl. Res. 2(3): 291-294.
27. **S. Ramkanth**, Ashok Kumar J, V S Thiruvengadarajan, C Gopinath. Preparation and characterization of self-microemulsifying drug delivery system of carvedilol for bioavailability improvement. Int. J. Res. Pharm. Sci., 7(2), 2016, 152-158.
28. V S Thiruvengadarajan, TSM Saleem, C Gopinath, **S Ramkanth**. A study of prescription pattern of Non Steroidal Anti inflammatory Drugs in a Tertiary care Hospital. Value in Health, 9 (7); 2016; A284
29. Ashok Kumar J, **Ramkanth S**, Lakshmana Prabu S, Gopal V. Enhancement of Saturation Solubility and In Vitro Dissolution of Carvedilol Nanoparticles by High Pressure Homogenization Technique. International Journal of Current Pharmaceutical Review and Research; 2016; 6(6); 269-273.
30. **S. Ramkanth**, C. Madhusudhana Chetty, Y. Sudhakar. Development and evaluation of transdermal drug delivery System of Propranolol Hcl. International Journal of Advances in Pharmacy and Biotechnology. Vol.1, Issue.1, 2015, 20-27.
31. **S. Ramkanth**, S. Jayaprakash, T. Vimalakannan. Formulate and evaluate a Monolithic drug-in-adhesive Type patch containing Tenoxicam. International Journal of Pharma Sciences and Research. Vol. 6 No.4 Apr 2015. 654-659.
32. **Sundarapandian Ramkanth**, Challa Madhusudhana Chetty and Yajamans Sudhakar; Development and in vitro permeation studies of proniosomal based transdermal delivery system of Atenolol; Pak. J. Pharm. Sci., Vol.27, No.1, January 2014, 115-120.
33. K. Kusuma, M. Nischala, B.Swathi, **S.Ramkanth**, G.Kusuma. Formulation and Evaluation of Losartan hydrogel beads. Int. J. Pharm Drug Anal. 2014; 2(9): 788-795.
34. **S. Ramkanth**, C. Madhusudhana Chetty, Y. Sudhakar; Development & Evaluation of Transdermal Drug delivery system of Metoprolol; Int J Res Pharm Sci. 3(4), 2012, 698-703.
35. **Ramkanth S**, Hemasagar Raju G, Madhusudhana Chetty C. Fabrication and characterization of transdermal drug delivery using Losartan potassium. Int. J. Rev. Life Sci. 2012; 2(1): 131-137.
36. S. Angalaparameswari, V. S. Thiruvengadarajan, N. Amruth kumar, M. Kutumbarao, **S. Ramkanth** and C. Madhusudhanachetty; Analytical Method Development and Validation of Exemestane Tablet by UV Spectrophotometry; E-Journal of Chemistry, 2012, 9(4), 2068-2073.
37. Divya N, Hemalatha R, Nirosha M, **Ramkanth S**, Ravikumar Reddy J, Madhusudhana Chetty C, Fabrication and evaluation of transdermal matrix patches of Metaprolol Tartrate. Int. J. Rev. Life. Sci. 2012; 2(4): 138-142.
38. Lokanath N, **Ramkanth S**, Balavardhan SN, Kiran Kumar R, Mohamed Saleem TS. Evaluation of self medication among professional students of Rajampet. Int. J. Res. Pharm. Sci., 2012; 3(3): 1-5.
39. **S. Ramkanth**, C. Madhusudhana Chetty, Y. Sudhakar; Transdermal delivery of Beta blockers – A novel therapeutic approach for cardiovascular disease; Int J Rev Life Sci. 1(3), 2011, 186-192.
40. **S. Ramkanth**, C. Madhusudhana Chetty, Y. Sudhakar; Development & Evaluation of Transdermal Drug delivery system of Atenolol; Int J Res Pharm Sci. 2(4), 2011, 692-697.

41. P. Anitha, **S. Ramkanth**, K. Uma Sankari, M. Alagusundaram, K. Gnanaprakash, P. Devaki Devi, R. Indira Prasanna. Ethosomes - A noninvasive vesicular carrier for transdermal drug delivery. *Int. J. Rev. Life. Sci.*, 1(1), 2011, 17-24
42. Mahesh G, **Ramkanth S**, Mohamed Saleem TS. Anti-inflammatory drugs from medicinal plants –a comprehensive review. *Int J Rev Life Sci.* 2011; 1(1): 1-10.
43. P Anitha, **S Ramkanth**, T S Mohamed Saleem, K Umasankari, B Praveen Reddy And C Madhusudhana Chetty; Preparation, in-vitro and in-vivo characterization of transdermal patch containing glibenclamide and atenolol: a combinational approach; *Pak. J. Pharm. Sci.*, Vol.24, No.2, 2011, 155-163. (PMID: 21454164)
44. T.S. Mohammed Saleem, **S.Ramkanth**, M.Alagusundaram, K. Gnanaprakash, S. Angalaparameswari, V.S. Thiruvengadarajan, K. Gauthaman; Protective effect of methanolic extract of *Annona squamosa* Linn in isoniazid – rifampicin induced hepatotoxicity in rats; *Pak. J. Pharm. Sci.*, Vol.24, No.2, 2011, 129-134. (PMID:21454160)
45. Jayaprakash S, **Ramkanth S**, et al., Formulaiton, invitro and invivo characterization of transdermal patches of etoricoxib; *Int J Rev Life Sci*; 2011; 2(1): 17-23.
46. B.Chengaiah, M. Alagusundaram, **S. Ramkanth** and C. Madhusudhana Chetty. Self Emulsifying Drug Delivery System: A Novel Approach for Drug Delivery. *Research J. Pharm. and Tech.* 2011; 4(2): 175-181.
47. Gnanaprakash K, Madhusudhana Chetty C, **Ramkanth S**, Alagusundaram M, Tiruvengadarajan VS, Angala Parameswari S, Mohamed Saleem TS; Aqueous Extract of *Flacourtia indica* Prevents Carbon Tetrachloride Induced Hepatotoxicity in Rat; *International Journal of Biological and Life Sciences*; 2011; 7 (1): 51-55.
48. S. Angalaparameswari, T.S. Mohamed Saleem, M. Alagusundaram, **S. Ramkanth**, V.S. Thiruvengadarajan, K. Ganaprakash, C. Madhusudhana Chetty, G. Prateesh; Anti-microbial activity of aristolochic acid from root of *Aristolocia bracteata* Retz; *International journal of medicine and medical science*; Vol:5 2011-09-27.
49. **S. Ramkanth**, M.Alagusundaram, K. Gnanaprakash, K. Mallikarjuna Rao, T.S. Mohammed Saleem, K.Paneer, C.Madhusudhana Chetty; Design and characterization of matrix type transdermal drug delivery system using metoprolol tartarate; *International Journal of Advances in Pharmaceutical Research*; Volume 1(1), Dec: 2010; 1-5.
50. **S. Ramkanth**, M.Alagusundaram, K. Gnanaprakash, C. Madhusudhana Chetty, K. Mallikarjuna Rao, Y. Sudhakar, Annie Baby; Formulation and Characterization of Floating Tablets of Diltiazem Hydrochloride; *Journal of Pharmacy Research*; 2010, 3(6),1263-1267.
51. T.S. Mohamed Saleem, C. Madhusudhana Chetty, **S. Ramkanth**, V.S.T. Rajan, K. Mahesh Kumar, Gauthaman K. Hepatoprotective Herbs – A Review. *Int. J. Res. Pharm. Sci.* 2010; 1(1): 1-5.
52. S Jayaprakash, **S Ramkanth**, et al., Design and evaluation of monolithic drug-in-adhesive transdermal patches of meloxicam; *Malaysian Journal of Pharmaceutical Sciences*; 8(2): 2010: 25–43.
53. M. Alagusundaram, N. Deepthi, **S. Ramkanth**, S. Angalaparameswari, T.S. Mohamed Saleem, K. Gnanaprakash, V. S. Thiruvengadarajan, C. Madhusudhana Chetty. Dry Powder Inhalers - An Overview. *Int. J. Res. Pharm. Sci.* 2010; 1(1): 34-42.
54. M.Alagusundaram, B.Chengaiah, K.Gnanaprakash, **S.Ramkanth**, C.Madhusudhana Chetty, D.Dhachinamoorthi; Nasal drug delivery system - an overview *Int. J. Res. Pharm. Sci.* 2010; Vol-1, Issue-4, 454-465.
55. K Panneer, J Ashok kumar, T K Pavithra, N Suresh, **S Ramkanth**; Formulation and Evaluation of Glyceryl trinitrate Controlled Drug Delivery System; *Int J Pharm Sci Bio*; 2010; 1(3): 155-160.
56. Thiruvengada rajan VS, Mohamed Saleem TS, **Ramkanth S**, Alagusundaram M et al., A simple RP-HPLC method for quantitation of Itopride HCl in tablet dosage form; *Journal of Young Pharmacist*; Vol 2 No 4; 2010; 410 – 413. (PMID: 21264104; PMCID: PMC3019383)
57. A.V.Badarinath, K. Mallikarjuna Rao, C. Madhu Sudhana Chetty,
58. **S. Ramkanth**, T.V.S Rajan, K. Gnanaprakash; A Review on In-vitro Antioxidant Methods: Comparisions, Correlations and Considerations; *International Journal of PharmTech Research*; Vol.2, No.2, April-June 2010, 1276-1285.
59. Uma Sankari K, Alagusundaram M, G Krishna Sahithi, C Madhu Sudhana Chetty, **S. Ramkanth**, S Angalaparameswari and TS Mohammed Saleem; Nanoemulsions - Approaching Thermodynamic Stability; *Research Journal of Pharmacy and Technology*; Volume 03, Issue 02, April-June 2010; 319 – 328.
60. **S. Ramkanth**, M. Alagusundaram, C. Madhusudhana Chetty, K. Gnanaprakash, V.S. Thiruvengadarajan, V. Sarovar reddy; Design and Progress of Zidovudine “Once a Day” Transdermal

61. **S. Ramkanth**, C. Madhusudhana chetty, M. Alagusundaram, S. Angalaparameswari, V. S. Thiruvengadarajan and K. Gnanaprakash; Design and evaluation of diclofenac Sodium ocusert; International journal of pharmtech research; Oct – Dec 2009: 1(4): 1219-1223.
62. T.S. Mohammed Saleem, C. Madhusudhana Chetty, **S. Ramkanth**, M. Alagusundaram, K. Ganaprakash, V.S.T. Rajan, S.A.P. Eswari; Solanum nigrum Linn – A review; Phcog Review; Vol 3; Issue 6; 2009; 342 – 345.
63. K.Gnanaprakash, K. Mallikarjuna rao, K.B. Chandra sekhar, C.Madhusudhana Chetty, M.Alagusundaram, **S.Ramkanth**; Formulation and evaluation of fast Dissolving tablets of valdecocix; International journal of pharmtech research; Oct-Dec 2009: Vol.1, No.4, 1387-1393.
64. M. Alagusundaram, C. Madhusudhana chetty, Umasharkari. K, Attuluri Venkata Badrinath, Lavanya and **Ramkanth. S**; Microspheres as a novel drug delivery system-A Review; International Journal of ChemTech Research; July-Sep 2009; Vol-1, N0:3; 526-534.
65. M.Alagusundaram, C. Madhusudhana chetty, **S. Ramkanth**, B. Chengaiah, S. Angalaparameswari, D. Dachinamoorthi. Formulation and Evaluation of Mucoadhesive buccal films of Ranitidine; International Journal of PharmaTech Research; 2009; 1(3): 557-563.
66. Gnanaprakash K, Habeeb Ibrahim A.R, **S. Ramkanth**, et al., Formulation and In-Vitro evaluation of floating drug delivery system for ranitidine hydrochloride; Journal of Iran University of Medical Sciences, 2009; 16(1): 135.
67. Mallikarjuna Rao K, Gnanaprakash K, **S. Ramkanth**, et al., Formulation and evaluation of floating tablets of Famotidine; Journal of Iran University of Medical Sciences, 2009; 16(1); 136.
68. M. Alagusundaram, Uma Shankari. K, C. Madhu sudhana Chetty, **S. Ramkanth**, Angalaparameswari S, D. Dahcinamoorthy; Formulation and evaluation of Mucoadhesive buccal film of Famotidine; International journal of pharmaceutical excipients; 2008; 102 – 108.
69. C. Vijaya, S. Selvakumar, **S. Ramkanth** and Rajalakshmi; Phytochemical and anti-inflammatory screening studies on Cardiospermum helicacabum; The Indian Pharmacist, 2007; 6(65) 73-75.
70. M. Alagusundaram, K. Ganaprakash, V.S. Thiruvengadarajan, **S. Ramkanth**, C. Madhusudhana chetty, S. Angalaparameswari, Formulation and Evaluation of Ethyl cellulose coated microcapsules of Zidovudine: Influence of solvent; International Journal of Pharmaceutical Excipients, April-June 2007; 67-69.
71. S. Jayaprakash, D. Dachinamoorthi, **S. Ramkanth**, M. Nagarajan; Formulation & evaluation of Gentamicin sulphate ocuserts; The pharma review, Oct 2006, 131-134.
72. S. Jayaprakash, N. Jawahar, D.Dachinamoorthi, **S. Ramkanth**, M.Nagarajan; Design & evaluation of Timed release matrix suppositories of indomethacin; The Pharma review, 2006, 100 – 102.

No. of Papers Presented in Conferences

1. Poster Presenter Academic at International Research Conference On Pharmaceutical And Allied Sciences (IRCPAS 2020) entitled QBD based novel combinational nanotransferosomes of pioglitazone and eprosartan mesylate: pharmacokinetic and pharmacodynamic studies, IRCPAS 207 held in UCSI university, Malaysia 7 & 8th March 2020.
2. Poster Presenter Academic at the 2nd International Conference on Drug Discovery & Therapy committee entitled The Effect of Annona squamosa Linn in Dexamethasone Induced Diabetes Mellitus” for the track “Diabetes and Obesity” held in Dubai, UAE from 1st – 4th Feb 2010.

No. of Research Grants / Projects received

1. Received Travel Grant of Rs. 1,00,000/- for participation and presentation at 2nd International Conference on Drug Discovery & Therapy committee entitled The Effect of Annona squamosa Linn in Dexamethasone Induced Diabetes Mellitus” for the track “Diabetes and Obesity” held in Dubai, UAE from 1st – 4th Feb 2010.

No. of Patents

Granted

Design Number	Invention Title	Granted Date
425247-001	Transdermal patch for monitoring diabetes	30/07/2024
6288558	Franz Diffusion Cell Apparatus For Permeation Studies Of Topical Formulations	17/06/2023

Published

Publication Number	Invention Title	Application Number	Published Date
37/2022	Fabrication of Cocoa butter fast melting tablets by simple freezing method	202241026059	16/09/2022
45/2021	A mechanism of hydrophilic matrix based for controlling the release drug	202141047475	05/11/2021
45/2021	Formulation and evaluation of sustained release microspheres of Aceclofenac	202141047228	05/11/2021