

CURRICULUM - VITAE

Name: C.SELVARAJ

Position: **Professor and Head**

Department of Mathematics

Periyar University

Periyar Palkalai Nagar

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Education: Ph.D., Ramanunjan Institute for Advanced Study in Mathematics, University of Madras, January 2000.

M.Phil., St. John's College, Palayamkottai, M.K University, Madurai, December 1988.

M.Sc., St. John's College, Palayamkottai, M.K University, Madurai, June 1985.

Experience:

S.No	Institution	Position	Period	Academic duties
1	TDMNS College, T. Kallikulam	Lecturer	28-4-1986 to 27-4-1993	Teaching
2	TDMNS College, T. Kallikulam.	Sr. Lecturer	28-4- 1993 to 26-7-1998	Teaching
3	TDMNS College, T. Kallikulam	S.G. Lecturer	27-7-1998 to 18- 1-2000	Teaching
4	TDMNS College, T. Kallikulam	Reader	19-1-2000 to 10- 5-2005	Teaching
5	Periyar University, Salem	Reader	11-5-2005 to 18- 1-2008	Teaching & Research
6	Periyar University, Salem	Professor	19-1-2008 to till date	Teaching & Research

Research Interests: Ring Theory and Representation Theory of Associative Algebras

Research Guidance: Awarded

M.Phil: 29

Ph.D: 4

Thesis submitted -01

S.No	Name	Title of PhD thesis	University	Year
1	R.George	Generalized Prime Ideals of Gamma Near Rings	M.S. University, Tirunelveli	21-05-2008
2	S.Petchimuthu	A Study of 2-Primal Gamma Rings and Rings	Periyar University, Salem	26-03-2009
3	L.Madhuchelvi	A Study of Substructure Characterization of Gamma-Near Rings	Periyar University, Salem	09-12-2011
4	T.Geetha	Cellularity of large Class of Diagram Algebras	Periyar University, Salem	14-03-2012
5	R.Udhayakumar	Gorenstein n-Flat Modules and Tate Homology	Periyar University, Salem	Thesis submitted on 30-09-2014

Under guidance

M.Phil: 4

Ph.D: 7

Membership in Professional Organizations:

- Life Member, Indian Society of Industrial and Applied Mathematics
- Member, American Mathematical Society .

Reviewing Activities:

- Mathematical Reviews, American Mathematical Society.
- Journal of Scientific Research
- Southeast Asian Bulletin of Mathematics.
- Acharya Nagarjuna International Journal of Mathematics and Information Technology.
- Bulletin of Pure and Applied Mathematics.
- Italian Journal of Mathematics
- Quaestione Mathematicae
- Tamsui Oxford Journal of Information and Mathematical Sciences.

Abroad Visit:

Poland: Invited Talk given on Factor Algebras of Signed Brauer's Algebras at XII International Conference on Representation Theory of Algebras and Workshop (ICRA XII), organized by Faculty of Mathematics and Computer Science, **Nicolaus Copernicus University, Torun, Poland**, held during August 14- 25, 2007.

Iran: Delivered Talk at International Conference on Representation Theory of Algebras organized by the **School of Mathematics, Institute for Studies in Theoretical Physics and Mathematics, Tehran, Iran** held during June 15-25, 2008.

China: 1. Delivered a Talk at International Summer School and Conference on Operads and Universal Algebra, organized by **Chern Institute of Mathematics, Nankai University, Tianjin, China** held during June 28- July 9, 2010.

2. Visited at **Chern Institute of Mathematics, Nankai University, Tianjin, China** during July 10 - July 23, 2010 under Visiting Scholars Scheme.

3. Visited at **School of Mathematical Sciences, Beijing Normal University, China** during July 24 - July 29, 2010 under Visiting Scholars Scheme.

Germany : Delivered a talk at International Conference on Representations of Algebras (ICRA XI) and Workshop organized by Faculty of Mathematics, **University of Bielefeld, Bielefeld, Germany** held during August 08- 17, 2012.

China: 1. Visited at **Shanghai Jiao Tong University, Shanghai, China** during August 12 - 18, 2014 under Visiting Scholars Scheme.

2. Delivered a talk at International Conference on Representations of Algebras (ICRA XII) and Workshop organized by **Tsinghua Sanya International Mathematics Forum, Sanya, China** held during August 20- 29, 2014.

List of Publications:

1. C.Selvaraj, V. Biju and R.Uthayakumar, Stability of Gorenstein FI-flat modules, to appear, in **Far East Journal of Mathematical Sciences**.
2. C.Selvaraj and A. Umamaheswaran, X-injective and Gorenstein X-injective Modules, to appear, in **Far East Journal of Mathematical Sciences**.
3. C.Selvaraj and A. Umamaheswaran, Gorenstein X-flat dimension and Tate homology, **Gulf J. Math.** Vol. 2 (4) (2014) 32-42.
4. C.Selvaraj and N.Neela, Conjecture on odd graceful graphs, to appear in **Journal of Combinatorial Mathematics and Combinatorial Computing**.
5. C.Selvaraj and R.Uthayakumar, Gorenstein n -flat modules and their covers, **Asian-European Journal of Mathematics** Vol 7 (3) (2014) 1450051
6. C.Selvaraj, R. Uthayakumar and A. Umamaheswaran, Derived Functors of Hom Relative to n -Flat Covers, **Vietnam Journal of Mathematics** Vol 42 (4) (2014)
7. C.Selvaraj and R.Uthayakumar, Stability of Gorenstein n -flat modules, **Palestine Journal of Mathematics** Vol 3 (2014) 495-504.
8. C. Selvaraj and T. Geetha, Signed Brauer's Algebras are Cellular and Quasi-hereditary, **Communications in Algebra** 40 (3) (2012) 1131-1141 ([MR2899930](#)) ([Zbl 1240.16012](#)).
9. C. Selvaraj and L. Maduchelvi, Characterization of 2-Primal Near- Rings, **Journal of Mathematical Research with Applications** 32 (1) (2012) 19-25. ([MR 2933496](#))([Zbl 1265.16065](#)).
10. C. Selvaraj and S. Petchimuthu, On prime Spectrums of 2-primal Rings, **Bulletin of the Institute of Mathematics Academia Sinica** 6 (6) (2011) 73-84. ([MR2850088](#)) ([Zbl 1251. 16016](#)).
11. C. Selvaraj and S. Petchimuthu, Clean and Exchange Conditions of NI Rings, **Bulletin of Pure and Applied Mathematics** 5 (1) (2011) 91-100.
12. C. Selvaraj and L. Maduchelvi, On Semi Uniformly Strongly Prime Gamma- Near rings, **Southeast Asian Bulletin of Mathematics** 35 (6) (2011) 1015-1028 ([MR2907769](#)) ([Zbl 1265.16074](#)).

13. C. Selvaraj and S. Petchimuthu, Clean Elements in 2-Primal Rings, **Southeast Asian Bulletin of Mathematics** 35 (3) (2011) 475-482 ([MR2856394](#)) ([Zbl 1240. 16015](#)).
14. C. Selvaraj and L. Maduchelvi, On Strongly Prime Spectrum of Gamma Near- Rings, **Bulletin of the Institute of Mathematics Academia Sinica** 6 (3) (2011) 329-345 ([MR2907286](#)) ([Zbl 1275.16040](#)).
15. C. Selvaraj and R. George, Strongly Regular Gamma Near Rings, **Southeast Asian Bulletin of Mathematics** 35 (2) (2011) 329-344 ([MR2866550](#)) ([Zbl 1240.16066l](#)).
16. C. Selvaraj and S. Petchimuthu, Characterization of 2-primal Gamma Rings, **Southeast Asian Bulletin of Mathematics** 34 (6) (2010) 1083-1094. ([MR2746742](#) (2011k: 16088)) ([Zbl 1224. 16112](#)).
17. C. Selvaraj and L. Maduchelvi, Strongly Prime Rings of Generalized Power Series, **Far East Journal of Mathematics** 36 (2) (2010) 183-200. ([MR 2599180](#) (2011f:16102)) ([Zbl 1172. 16043](#)).
18. C. Selvaraj and S. Petchimuthu, NI Rings which are Weakly Pi- Regular, **International Electronic Journal of Algebra** 6 (2009) 31-37. ([MR2520954](#) (2010g: 16018)) ([Zbl pre 0570277](#)).
19. C. Selvaraj, R. George, and G.L. Booth, On Strongly Equiprime Gamma Near Rings, **Bulletin of the Institute of Mathematics Academia Sinica** 4(1) (2009) 35-46. ([MR2512846](#)) (2011a: 16068) ([Zbl 1183.16040](#)).
20. C. Selvaraj and L. Maduchelvi, On Uniformly Strongly Prime Gamma Near Rings, **Far East Journal of Mathematics** 31 (2) (2008) 237-255. ([MR2522792](#)) (2010j: 16089) ([Zbl 1178. 16048](#)).
21. C. Selvaraj and S. Petchimuthu, On Strongly Prime Gamma Rings, **International Journal of Algebra** 2 (19) (2008) 933- 943. ([MR2481213](#)) ([Zbl 1165. 16028](#)).
22. C.Selvaraj and S. Petchimuthu, Characterization of 2-primal Ideals, **Far East Journal of Mathematics** 28(1) (2008) 249-256. ([MR2417060](#)) ([Zbl 1147. 16003](#)).
23. C. Selvaraj and R. George, On Strongly Prime Gamma Near Rings, **Tamkang Journal of Mathematics** 39 (1) (2008) 33- 43. ([MR2416178](#) (2009d: 16084)) ([Zbl 1143. 16307](#)).
24. C. Selvaraj, S. Petchimuthu and R.George, Strongly Prime Gamma rings and Morita equivalence of rings, **Southeast Asian Bulletin of Mathematics** 32 (6) (2008) 1137-1147. ([MR2471538](#) (2020g: 16085)) ([Zbl 1199. 16110](#)).
25. C. Selvaraj and S. Petchimuthu, Characterization of 2-primal Rings, **Far East Journal of Mathematics** 27 (2) (2007) 295- 300. ([MR2404383](#)) ([Zbl 1148. 16001](#)).

26. C. Selvaraj, S. Petchimuthu and R. George, Strongly Prime Radicals of Gamma Rings, **Far East Journal of Mathematics** 27(3) (2007) 777-784. **MR2400295 (2009a: 16087).**
27. C. Selvaraj, Factor Algebras of Signed Brauer's Algebra, **Kyungpook Journal of Mathematics** 47 (4) (2007) 549- 568. **(MR2397479 (2009b: 16076)) (Zbl 1187. 16013).**
28. M. Parvathi and C. Selvaraj, Characters of Signed Brauer's Algebras, **Southeast Asian Bulletin of Mathematics** 30(2006) 495-514. **(MR2243691 (2007d: 16068)) (Zbl 1150. 16303).**
29. M. Parvathi and C. Selvaraj, Note on Signed Brauer's Algebras, **Southeast Asian Bulletin of Mathematics** 27(2004), 883-898. **(MR2175793 (2006i: 16047)) (Zbl 1071. 16010).**
30. M. Parvathi and C Selvaraj, Signed Brauer's Algebra as Centralizer Algebras, **Communications in Algebra**, 27(12)(1999), 5985-5998 **(MR1726289 (2000j: 16051)) (Zbl 0944. 16016).**

Communicated Papers

1. C. Selvaraj, V. Biju and R. Udhayakumar "Gorenstein FI-flat Dimension and Tate Homology" communicated to *Vietnam Journal of Mathematics*.
2. C. Selvaraj and V. Biju "Gorenstein FI-flat Dimension relative to a semi dualizing module" communicated to *Discussiones Mathematicae – General Algebra and Applications*.
3. C. Selvaraj, R. Saravanan and R. Udhayakumar "SG_C – Projective, Injective and Flat Modules" communicated to *Vietnam Acta Mathematica Vietnamica*.
4. C. Selvaraj and R. Udhayakumar "Gorenstein n-flat Dimension and Tate Homology" communicated to *Indian Journal of Pure and Applied Mathematics*.
5. C. Selvaraj and R. Udhayakumar "Gorenstein flat Dimension relative to a semi dualizing Module" communicated to *Asian-European Journal of Mathematics*.
6. C. Selvaraj, A. Umamaheswaran and R. Udhayakumar "Covers and Envelopes of \hat{U}_x -injective modules" communicated to *Ukrainian Mathematical Journal*.
7. C. Selvaraj and A. Umamaheswaran "Derived functors using U_x -coresolutions and Dimensions" communicated to *Communications in Mathematics and Statistics*.
8. C. Selvaraj and A. Umamaheswaran " \hat{U}_x -coresolutions and Dimensions" communicated to *Arabian Journal of Mathematics*.

Paper Presented / Delivered Invited Talk in the Conferences / Seminars/ Workshops

1. Delivered a talk at International Conference on Representations of Algebras (ICRA XII) and Workshop organized by **Tsinghua Sanya International Mathematics Forum, Sanya, China** held during August 20- 29, 2014.
2. Delivered a talk at Workshop and International Conference on Representations of Algebras (ICRA XV) organized by Faculty of Mathematics, **University of Bielefeld, Bielefeld, Germany** held during August 08- 17, 2012
3. Delivered an invited talk in National Seminar on Recent Advancements in Pure and Applied Mathematics, Organized by **Department of Mathematics, Sri Sarada College for Women, Salem-636016** held during 10th February, 2012.
4. Delivered an invited talk in International Seminar on Recent Trends in Pure and Advances in Applied Mathematics, Organized by **Department of Mathematics, Vivekanandha College of Arts and Sciences for Women, Elayampalayam-637205, Triuchengodu, Nmakkal Dist.,** held during March 14, 2011.
5. Delivered an invited talk in State Level Seminar on Research Methods in Mathematics, Organized by **Department of Mathematics, Islamiah College, Vaniyambadi-635752** held during March 3, 2011.
6. Delivered a Talk at International Summer School and Conference on Operads and Universal Algebra, organized by **Chern Institute of Mathematics, Nankai University, Tianjin, China** held during June 28- July 9, 2010.
7. Delivered Invited Talk at National Conference on Applications of Mathematics in Science and Engineering, organized by the Department of Mathematics, **Sacred Heart College, Tirupattur-635601** held during February 11-12, 2010.
8. Delivered Invited Talk at National Seminar on Algebra, Analysis and Discrete Mathematics organized by the Department of Mathematics, **University of Kerala, Kariyavattom, Kerala** held during December 10-12, 2008.
9. Delivered Invited Talk at International Conference on Representation Theory of Algebras organized by the School of Mathematics, **Institute for Studies in Theoretical physics and Mathematics, Tehran, Iran** held during June 15-25, 2008.
10. Delivered a Valedictory Address in the Mathematics Association function organized by the **Department of Mathematics, Sri Sarada College, Salem- 636011,** on 22-01-2008.

11. Delivered a Keynote Address in the UGC seminar organized by the **Department of Mathematics, Sri Sarada College, Salem- 636011**, on 19-12-2007.
12. Delivered Invited Talk at the XII International Conference on Representations of Algebras and Workshop (ICRA XII), organized by Faculty of Mathematics and Computer Science, **Nicolaus Copernicus University, Torun, Poland**, held during August 15-24, 2007.
13. Paper Presented at Two day National seminar on Recent Advances in Mathematics, organized by the **Department of Mathematics, Periyar University, Salem-11** held during March 12-13, 2007.
14. Delivered Invited Talk at Two day State Level Seminar on Algebra, Analysis and Their Applications organized by the **Department of Mathematics, A.P.C. Mahalaxmi College, Thoothukudi-628002** held during February 28 and March 1, 2006.
15. Delivered a Valedictory Address in the Mathematics Association function organized by the **Department of Mathematics, Kandasamy Kander College, Vellur** on 04-01-2006.

Delivered Invited Talk in the Refresher Courses

1. Delivered a talk on “Sequences and Series of Functions “in the UGC sponsored Refresher Course in Analysis (Mathematics) at **Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai** held during November 1-22, 2008.
2. Delivered a talk on “Extension Feilds “in the UGC sponsored Refresher Course in Algebra (Mathematics) at **Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai** held during November 5-25, 2009.
3. Delivered a talk on “Modules “in the UGC sponsored Refresher Course in Mathematics at **Academic Staff College, University of Kerala, Trivandrum** held during September 05- 26, 2012.
4. Delivered a talk on “Homological Algebra “in the UGC sponsored Refresher Course in Mathematics at **Academic Staff College, Bharathiar University, Coimbatore** held during September 11 to October 1, 2012.

List of Orientation / Refresher Courses/Summer School Attended:

1. Orientation Course, which was conducted by the Academic Staff College, University of Hyderabad, Hyderabad during the period from 23-04-1990 to 19-04-1990.
2. Summer School on Reflection Groups, which was conducted by NBHM and Department of Mathematics, University of Bombay, Mumbai during the period from 03-05-1993 to 22-05-1993.
3. Refresher Course in Mathematics (Functional Analysis), which was conducted by the Academic Staff College, Aligarh Muslim University, Aligarh during the period from 07-11-1994 to 03-12-1994.
4. Refresher Course in Mathematics (Linear Algebra), which was conducted by the Academic Staff College, Aligarh Muslim University, Aligarh during the period from 02-02-1998 to 28-02-1998.
5. Refresher Course in Mathematics (Application of Mathematics), which was conducted by the Academic Staff College, Jamia Millia Islamia, New Delhi during the period from 08-08-2000 to 30-08-2000.

List of Conferences/Seminars/Workshops Participated

1. Ramanujan Symposium on Algebra and its Application organized by Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai-600005, held during January 27-29, 1993.
2. Seminar on Recent Trends in Mathematics organized by the Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli held on 17th March 2004.
3. National Workshop on Fundamentals of Fuzzy set Theory organized by Stella Maris College, Chennai held during August 05-06, 2005.
4. National Seminar on Recent Advances in Analysis and Applications organized by the Department of Mathematics, Kandaswami Kandar's College, Velur-638182 held during August 22-23, 2005.

5. Two day National Seminar on Mathematical Analysis and Applications organized by the Department of Mathematics, Periyar University, Salem-11 held during October 6- 7, 2005.
6. Two-day Workshop on Algebra organized by the Department of Mathematics, Periyar University, Salem-11 held during February 17-18, 2006.
7. Two day State Level Seminar on Algebra, Analysis and Their Applications organized by the Department of Mathematics, A.P.C. Mahalaxmi College, Thoothukudi-628002 held during February 28 and March 1, 2006.
8. Two day National Conference on Differential Equations and Applications organized by the Department of Mathematics, Periyar University, Salem-11 held during September 28-29, 2006.
9. International Conference on Non Commutative Rings, Groups Rings, Diagram Algebras and Applications, organized by Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai held during December 18-22,2006.
10. Two-day Workshop on Real Analysis organized by the Department of Mathematics, Periyar University, Salem-11 held during January 24-25, 2007.
11. Two day National seminar on Recent Advances in Mathematics, organized by the Department of Mathematics, Periyar University, Salem-11 held during March 12-13, 2007.
12. XII International Conference on Representations of Algebras and Workshop (ICRA XII), organized by Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, Torun, Poland, held during August 15-24,2007.
13. International Conference on Representation Theory of Algebras organized by the School of Mathematics, Institute for Studies in Theoretical physics and Mathematics, Tehran, Iran held during June 15-25, 2008.
14. National Seminar on Algebra, Analysis and Discrete Mathematics organized by the Department of Mathematics, University of Kerala, Kariyavattom, Kerala held during December 10-12, 2008.
15. Two day National seminar on Algebra and its Applications, organized by the Department of Mathematics, Periyar University, Salem-11 held during February 12-13, 2009.
16. Fifth Annual Instructional Conference of ADMA and Graph Theory day V organized by the Department of Mathematics, Periyar University, Salem-11 held during June 8-10, 2009.

17. National Conference on Applications of Mathematics in Science and Engineering, organized by the Department of Mathematics, **Sacred Heart College, Tirupattur-635601** held during February 11-12, 2010.
18. International Summer School and Conference on Operads and Universal Algebra, organized by **Chern Institute of Mathematics, Nankai University, Tianjin, China** held during June 28- July 9, 2010.
19. International Conference on Non-Commutative Rings and Combinatorial Representation Theory organized by Department of Mathematics, **Pondicherry University, Pondicherry-605014** held during September 2-3, 2010.
20. Two day National Conference on Advances in Differential Equations and Applications, organized by the Department of Mathematics, Periyar University, Salem-11 held during October 7-8, 2010.
21. State Level Seminar on Research Methods in Mathematics, Organized by Department of Mathematics, **Islamiah College, Vaniyambadi-635752** held during March 3, 2011.
22. International Seminar on Recent Trends in Pure and Advances in Applied Mathematics, Organized by Department of Mathematics, **Vivekanandha College of Arts and Sciences for Women, Elayampalayam-637205, Triuchengodu, Nmakkal Dist.**, held during March 14, 2011.
23. Delivered an invited talk in National Seminar on Recent Advancements in Pure and Applied Mathematics, Organized by **Department of Mathematics, Sri Sarada College for Women, Salem-636016** held during 10th February, 2012.
24. Delivered a talk at Workshop and International Conference on Representations of Algebras (ICRA XV) organized by Faculty of Mathematics, **University of Bielefeld, Bielefeld, Germany** held during August 08- 17, 2012.
25. Delivered a talk at International Conference on Representations of Algebras (ICRA XII) and Workshop organized by **Tsinghua Sanya International Mathematics Forum, Sanya, China** held during August 20- 29, 2014.

Conferences / Seminars/ Workshops / Organized etc:

- Two-day National Seminar on Mathematical Analysis and Applications held at the Department of Mathematics, Periyar University, Salem-11 during October 6- 7, 2005.
- Two-day Workshop on Algebra held at the Department of Mathematics, Periyar University, Salem-11 during February 17-18, 2006.

- Two day National Conference on Differential Equations and Applications organized by the Department of Mathematics, Periyar University, Salem-11 held during September 28-29, 2006.
- Two-day Workshop on Real Analysis held at the Department of Mathematics, Periyar University, Salem-11 during January 24-25, 2007.
- Two day National Seminar on Recent Advances in Mathematics, organized by the Department of Mathematics, Periyar University, Salem-11 held during March 12-13, 2007.
- Two day National seminar on Algebra and its Applications, organized by the Department of Mathematics, Periyar University, Salem-11 held during February 12-13, 2009.

MEMBERSHIP IN ACADEMIC BODIES

- Chairman, Board of studies in Mathematics, Department of Mathematics, Periyar University, Salem from 2009-2010 onwards.
- Chairman, Board of studies in Mathematics (PG) for Affiliated Colleges, Periyar University, Salem from 2009-2010 onwards.
- Member, Board of studies in Computer Science, Department of Computer Science, Periyar University, Salem from 2010-2011 onwards.
- Member, Board of studies in Mathematics (UG & PG), Annamalai University, Annamalainagar from 2010-2011 onwards.
- Member, Board of studies in Mathematics (UG & PG), Vinayaka Mission University, Salem from 2010-2011 onwards.
- Member, Board of studies in Mathematics (UG & PG), Sacred Heart College, Tirupattur-635601 from 2009-2010 onwards.
- Member, Board of studies in Mathematics (UG & PG), Govt. Arts College, Salem – 636007 from 2008-2009 onwards.
- Member, Board of studies in Mathematics (UG & PG), Vivekananda College of Arts and Sciences for Women, Elayampalayam-637205, Triuchengodu, Namakkal Dist from 2011-2012 onwards.
- Member, Academic Council, Sri Saradha College, Salem – 636016 from 2009-2010 onwards.

Extension Activities:

1. Acting as Coordinator, All India Civil Services Examinations free Coaching Centre (UGC Sponsored), Periyar University, Salem since 17-09- 2010.
2. Acting as Member Secretary, IQAC, Periyar University, Salem since 21-02- 2012.

Major Research Project:

S.No	Title of the project	Organization	Amount In Rs.	Period
1.	The Study of Characters and Cellularity of G-Brauer Algebras	UGC	Rs.5, 62,100	1-04-2007 to 31-03-2010
2	Cellularly Stratified Algebras and Tilting Modules	UGC	Rs 11,64, 800	01-07-2012 to 30-06-2015

Preparation of Course Materials for Distance Education

- 1 C. Selvaraj, **Modern Algebra** for B.Sc Mathematics, Manonmaniam Sundaranar University.
- 2 C.Selvaraj, **Advanced Abstract Algebra** for M.Sc Mathematics, Manonmaniam Sundaranar University.
- 3 C.Selvaraj, **Commutative Algebra** for M.Phil Mathematics, Manonmaniam Sundaranar University.