A.P.C.MAHALAXMI COLLEGE FOR WOMEN, THOOTHUKUDI

PG & RESEARCH DEPARTMENT OF MATHEMATICS

Learning Resources

S. No.	Course	Title of the Paper	Link
1	B.Sc	Classical Algebra	https://www.britannica.com/science/algebra/Classical-algebra https://www.youtube.com/watch?v=l6lwWq7yFDI https://www.infoplease.com/encyclopedia/science/math/basics/algebra/principles-of-classical-algebra
2	B.Sc	Calculus	https://d3bxy9euw4e147.cloudfront.net/oscms-prodcms/media/documents/CalculusVolume2-OP_esPpXTB.pdf http://www.math.harvard.edu/~shlomo/docs/Advanced_Calculus.pdf https://notendur.hi.is/adl2/CalcI_Complete.pdf
3	B.Sc	Analytical Geometry	http://fhscastormath.weebly.com/uploads/1/2/4/7/12476962/chapter11_precal.pdf https://alagappauniversity.ac.in/uploads/files/3_%20B_Sc_%20(Mathematics)%20-%20113%2023%20-%20Analytical%20Geometry%20and%20Vector%20Calculus.pdf https://www.google.com/url?sa=t&source=web&rct=j&url=http://fhscastormath.weebly.com/uploads/1/2/4/7/12476962/chapter11_precal.pdf&ved=2ahUKEwjf3d7ljYXmAhWUX30KHZ26Cz0QFjAAegQIBhAC&usg=AOvVaw0Isw0JIr4jUbrCcc2dbQGV
4	B.Sc	Differential Equations	http://www.math.toronto.edu/selick/B44.pdf https://www.google.com/url?sa=t&source=web&rct=j&url=http://www.math.toronto.edu/selick/B44.pdf&ved=2ahUKEwjOvZXY24TmAhVK6nMBHbliBRQQFjAAegQIBBAB&usg=AOvVaw2wK4FhlJq4DZO98A758EDL
5	B.Sc	Environmental Studies	http://mooc.nios.ac.in/mooc/pluginfile.php?file=/11501/course/summary/UNIT%208%20RESOURCES%20AND%20MATERIALS.pdf
6	B.Sc	Real Analysis	https://study.com/academy/topic/mathematical-sequences-and-series https://www.stem.org.uk/resources/elibrary/resource/32369/sequences-and-series https://byjus.com/maths/sequence-and-series https://www.jirka.org/ra/realanal.pdf
7	B.Sc	Abstract Algebra	https://math.stackexchange.com/questions/1357966/online-materials-for-self-studying-introductory-abstract-algebra https://www.reddit.com/r/learnmath/comments/bceh1r/best_resources_for_selfstudying_abstract_algebra/ https://ocw.mit.edu/courses/mathematics/18-703-modern-algebra-spring-2013/related-resources/
8	B.Sc	Algebra and Differential Equations	https://www.khanacademy.org/math/differential-equations http://mathforum.org/algebra/alg.lessons.html
9	B.Sc	Trigonometry, Laplace Transform and Fourier Series	https://www.google.com/url?sa=t&source=web&rct=j&url=http://people.uncw.edu/hermanr/pde1/PDEbook/Fourier.pdf&ved=2ahUKEwi73Lb62ITmAhXQZSsKHegbD38QFjAAegQIARAB&usg=AOvVaw3o01Cgw2idqX1z1eHHtks8

10	B.Sc	Fundamental of Mathematical Statistics	https://drive.google.com/file/d/1S5kzE3v-bBJjuUP7dyJNNByhSnSDJEsE/view
11	B.Sc	Vector Analysis	https://math.libretexts.org/Bookshelves/Calculus/Supplemental_Modules_(Calculus)/Vector_Calculus https://math.oregonstate.edu/home/programs/undergrad/CalculusQuestStudyGuides/vcalc/vcalc.html https://brilliant.org/courses/vector-calculus/
12	B.Sc	Statistics	https://www.dictionary.com/browse/statistics https://www.springer.com/gp/book/9781461471370 https://www.analyticsvidhya.com/resource-statitics/ https://elitedatascience.com/learn-statistics-for-data-science
13	B.Sc	Graph Theory	https://www.scoop.it/topic/ibigrfj/p/4099002899/2018/07/04/graph-theory-by-narsingh-deo-pdf
14	B.Sc	Combinatorial Mathematics	https://www.google.com/url?sa=t&source=web&rct=j&url=http://www.ma.rhul.ac.uk/~uvah099/Maths/Combinatorics11/MT4542011Slides.pdf&ved=2ahUKEwjC_IK30YTmAhUHs48KHVjZAVoQFjAHegQICRAB&usg=AOvVaw2VILKtWZ66thFp4K4OF5H_&cshid=1574660158916
15	B.Sc	Operations Research	https://www.scoop.it/topic/biebsdt/p/4099414796/2018/07/17/operations-research-by-kanti-swarup-pdf
16	B.Sc	Statics	https://physics.info/statics/ https://www.engineer4free.com/statics.html http://oli.stanford.edu/engineering-statics
17	B.Sc	Complex Analysis	http://www.maths.lth.se/matematiklu/personal/olofsson/CompHT06.pdf
18	B.Sc	Dynamics	https://www.merriam-webster.com/dictionary/dynamics https://www.dictionary.com/browse/dynamics https://www.britannica.com/science/dynamics-physics
19	B.Sc	Fuzzy Mathematics	https://www.mdpi.com/books/pdfdownload/book/1028 https://pdfs.semanticscholar.org/a31d/fa5eb97fced9494dfa1d88578da6827bf78d.pdf
20	B.Sc	Numerical Methods	https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.math.ust.hk/~machas/numerical-methods.pdf&ved=2ahUKEwiA4YrD2YTmAhUyheYKHRafCF8QFjABegQIBhAB&usg=AOvVaw2XYqzDmJzupEa79S98dhiS
21	B.Sc	Transforms and its applications	https://see.stanford.edu/materials/lsoftaee261/book-fall-07.pdf
22	M.Sc	Algebra	https://marinazahara22.files.wordpress.com/2013/10/i-n-herstein-topics-in-algebra-2nd-edition-1975-wiley-international-editions-john-wiley-and-sons-wie-1975.pdf http://abstract.ups.edu/download/aata-20110810.pdf
23	M.Sc	Analysis	https://notendur.hi.is/vae11/%C3%9Eekking/principles_of_mathematical_analysis_walter_rudin.pdf
24	M.Sc	Analytic Number Theory	https://www.google.com/url?sa=t&source=web&rct=j&url=https://faculty.math.illinois.edu/~ford/Math531_Notes_Hildebrand.pdf&ved=2ahUKEwix27X7ioXmAhVPU30KHVXZAd8QFjAJegQIAxAB&usg=AOvVaw2PSSHNd84Zp2QLQ-7pydSo&cshid=1574675465067

25	M.Sc	Ordinary Differential Equations	https://www.cs.bgu.ac.il/~leonid/ode_bio_files/Ionascu_LectNotes.pdf
26	M.Sc	Numerical Analysis	http://www.ikiu.ac.ir/public-files/profiles/items/090ad_1410599906.pdf
27	M.Sc	Graph Theory	http://www.zib.de/groetschel/teaching/WS1314/BondyMurtyGTWA.pdf https://www.google.com/url?sa=t&source=web&rct=j&url=http://www.zib.de/groetschel/teaching/WS1314/BondyMurtyGTWA.pdf&ved=2ahUKEwj02sr1i4XmAhXaeisKHTtxDYAQFjAJegQIAxAB&usg=AOvVaw15e3Z0Jx0pzFHMjk9KOaRy
28	M.Sc	Programming in C++	https://www.cs.colorado.edu/~kena/classes/5448/f12/presentation-materials/torpe.pdf http://www.mldcollege.com/panel/programs/Object%20Oriented%20Programming%20with%20C__-Bal%20-%20E.Balagurusamy.pdf https://mcdtu.files.wordpress.com/2016/09/e_balagurusamy-object_oriented_programming_with_c.pdf
29	M.Sc	Mechanics	http://www.freebookcentre.net/physics-books-download/Lecture-notes-for-Mechanics-[PDF-76p].html
30	M.Sc	Measure and Integration	http://www.math.utoronto.ca/almut/MAT1000/LL-1.pdf
31	M.Sc	Topology	https://www.academia.edu/23504055/Topology_Second_Edition
32	M.Sc	Complex Analysis	https://www.coursera.org/learn/complex-analysis http://www.maths.lth.se/matematiklu/personal/olofsson/CompHT06.pdf https://www.britannica.com/science/analysis-mathematics/Complex-analysis
33	M.Sc	Calculus of Variations and integral equations	https://www.google.com/url?sa=t&source=web&rct=j&url=https://nptel.ac.in/courses/111104025/&ved=2ahUKEwj04NfAjIXmAhWFV30KHY8mDJgQFjAEegQIBhAC&usg=AOvVaw1-JQ5rarIotsIIAxCcLWSD&cshid=1574675973936 https://www.google.com/url?sa=t&source=web&rct=j&url=https://freevideolectures.com/course/3077/calculus-of-variations-and-integral-equations&ved=2ahUKEwj04NfAjIXmAhWFV30KHY8mDJgQFjAKegQICBAB&usg=AOvVaw0pIqKkVtqXagSAND4bxzaw&cshid=1574675973936
34	M.Sc	Research Methodology	https://www.msuniv.ac.in/images/academic/academic_affairs/M.Phil-Research&TeachingMethodology.pdf https://www.semanticscholar.org/paper/Research-methods-in-(mathematics)-education-Schoenfeld/67ed862c1883fa6b2f5dbd9011d95335aa45c3f0 https://www.researchgate.net/publication/282370187_e-textbooks_infor_Teaching_and_Learning_Mathematics_A_Disruptive_and_Potentially_Transformative_Educational_Technology
35	M.Sc	Operations Research	https://thalis.math.upatras.gr/~tsantas/DownLoadFiles/Taha%20-%20Operation%20Research%208Ed.pdf
36	M.Sc	Advanced Algebra	https://www.chilimath.com/lessons/advanced-algebra/ https://accuplacer.collegeboard.org/accuplacer/pdf/next-generation-sample-questions-advanced-algebra-and-functions.pdf http://www.mathematik.uni-muenchen.de/~pareigis/Vorlesungen/01WS/advalg.pdf

			https://machinelearningmastery.com/resources-for-linear-algebra-in-machine-learning/ https://analyticsindiamag.com/7-top-linear-algebra-resources-for-machine-learning-beginners/ https://www.khanacademy.org/math/linear-algebra
37	M.Sc	Functional Analysis	http://susanka.org/HSforQM/%5BSimmons%5D_Introduction_to_Topology_and_Modern_Analysis.pdf
38	M.Sc	Differential Geometry	https://www.google.com/url?sa=t&source=web&rct=j&url=http://strangebeautiful.com/other-texts/spivak-intro-diff-geom-v1-3ed.pdf&ved=2ahUKEwjUquiCkIXmAhWSdn0KHQHGAcQQFjAJegQICBAB&usg=AOvVaw0l9chHUATReR4ewH9GqHTg
39	M.Phil	Advanced Analysis	https://59clc.files.wordpress.com/2011/01/real-and-complex-analysis.pdf
40	M.Phil	Teaching and Research Methodology	http://www.math.toronto.edu/jcarlson/A--M.pdf http://gtu.ge/Agro-Lib/RESEARCH%20METHOD%20COHEN%20ok.pdf
41	M.Phil	Banach Algebra & Spectral Theory	https://59clc.files.wordpress.com/2012/08/functional-analysis-_-rudin-2th.pdf