



BABA GHULAM SHAH BADSHAH UNIVERSITY RAJOURI (J&K)

Minutes of Board of Studies in Mathematics (Spl. Applied Mathematics)

The meeting of Board of Studies in Mathematics (spl. Applied Mathematics) was held Department of Mathematical Sciences on February 23, 2017 wherein following members were present.

1. Prof. M. Mursaleen, Aligarh Muslim University, Aligarh *Uk*
2. Dr. Zaheer Abbas, Head, Department of Mathematical Sciences (BGSBU) *Zaheer*
3. Dr. Javid Iqbal, Assistant Professor, Department of Mathematical Sciences (BGSBU) *Javid*
4. Mrs. Shanti Gupta, Lecturer, Department of Mathematical Sciences (BGSBU) *Shanti*

The meeting started with the welcome address presented by Dr. Zaheer Abbas, who appreciated the efforts of all the faculty members in the preparation / modification of the syllabi, followed by the presentation of the point wise agenda of the meeting. During the meeting, thread bare discussion / deliberations were held on regarding the modification of syllabi and the decisions are hereby placed on record.



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Course Code	Course Name	Resolution
Semester-I MAM-131	Applied Analysis	BOS has proposed: the course to be renamed as Topology and its applications ; the course code be changed to MS - 101 ; continuation of Unit I and Unit II (with minor changes) and replacement of last three units with new one's.
MAM-132	Techniques in Differential Equations	BOS has proposed the course code be changed to MS - 102 and continuation of rest of the contents.
MAM-133	Real Analysis	BOS has proposed: the course code be changed to MS - 103 ; continuation of the course title; continuation of Unit I and Unit II (with minor changes) and replacement of last three units with new one's.
MAM-134	Applied Numerical Analysis	BOS has proposed the course code be changed to MS - 104 ; and continuation of the rest of the contents except minor changes at one or two places.
MAM-135	Computer Fundamentals and C - Programming	BOS has proposed the course code be changed to MS - 105 and continuation of the rest of the contents.
MAM-136	Lab course on MAM-125	BOS has proposed: the course to be renamed as Lab course on MS -104 and MS - 105 the course code be changed to MS - 106 maximum marks be changed to 100; and continuation of the rest of the contents.

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Course Code	Course Name	Resolution
Semester-II		
MAM-231	Fourier Analysis and Partial Differential Equations	BOS has proposed the removal of this course to provide space for the choice based elective courses, a list of which has been attached to this syllabus.
MAM-232	Numerical Linear Algebra.	BOS has proposed the course code be changed to MS - 201 and continuation of the rest of the contents except minor changes at one or two places.
MAM-233	Functional Analysis with Applications	BOS has proposed the course code be changed to MS - 202 and continuation of the rest of the contents except some changes in the unit four.
MAM-234	Abstract Algebra with Applications	BOS has proposed the course code be changed to MS - 203; continuation of the course title; continuation of unit I, II and III; some deletions in unit IV; replacement of UNIT V with a new unit
MAM-235	Complex Analysis and Applications	BOS has proposed the course code be changed to MS - 204 and continuation of rest of the contents.
MAM-236	MATLAB	BOS has proposed the course code be changed to MS - 205; maximum marks be changed to 100 and continuation of rest of the contents with minor changes at one or two places. .
		BOS has proposed the open course offered by the department for the students of other departments with title Mathematical Tools for Real World Problems.

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Course Code	Course Name	Resolution
Semester-III		
MAM-331	Applied Probability and Random Processes	BOS has proposed to change the status of this compulsory course as an elective course in the same semester with new course code MS - 323 and without changing any of the contents; replacement of this course with a new course namely Applied Harmonic Analysis bearing code MS - 318 .
MAM 332	Computational Methods for ODE and PDE	BOS has proposed the course code be changed to MS - 316 ; Continuation of unit I and II; major changes in Unit III, IV and V.
MAM-333	Applied Functional Analysis - I	BOS has proposed the course be shifted to semester fourth with new course title Applied Functional Analysis and new course code MS - 426 ; replacement of this course with a new course namely Applied Multivariable Calculus bearing code MS - 317 .
MAM-334	Lab Course on MAM - 332	BOS has proposed: the course to be renamed as Latex and Lab course on MS - 316 ; the course code be changed to MS - 319 ; the maximum marks be raised to 100 and some changes in the contents.
MAM - 335/336	Elective-I	
	MAM-335: Mathematical Finance	MAM-336: Graph and Network Theory
MAM 337 / 338	Elective-II	
	MAM - 337: Modelling and Simulation	MAM -338: Mathematical Programming
<p>BOS has proposed to put all these four courses in to one list under the heading "choice based complementary courses"; to add two more courses to this list namely Applied Probability and Random Processes (earlier a compulsory course in the same semester with course code MAM - 331) and Modelling of Real world problems by Variational inequalities (earlier an elective course in the fourth semester with course code MAM - 475); to change the course code MAM -335 to MS -320; to change the course code MAM -336 to MS -321; to change the course code MAM -337 to MS -322; to change the course code MAM -338 to MS -324; to change the course code MAM -331 to MS -323; and to change the course code MAM -475 to MS -325.</p>		

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Course Code	Course Name	Resolution
Semester-IV		
MAM-471	Dissertation/ Major Project	BOS has proposed continuation of this course under the new course code MS - 416 without any change.
MAM-472	Technical Communication	BOS has proposed continuation of this course under new course code MS - 417 without any change.
		BOS has proposed the introduction of new lab course namely LAB course on SPSS with course code MS - 418 .
MAM-473- 86	Elective-II, III and IV	BOS has proposed this heading be changed to " Choice based complementary electives "
MAM-473	Wavelet and Applications	BOS has proposed: the course code be changed to MS - 419 ; rearrangement of the contents with few additions and deletions.
MAM-474	Mathematics of Insurance	BOS has proposed the course code be changed to MS - 420 and continuation of the rest of the contents.
MAM-475	Modeling of Real World Problems by Variational Inequalities	BOS has proposed to shift this course to semester third with a new course code MS- 325 and without any change in the contents.
MAM-476	Fluid Dynamics	BOS has proposed the course code be changed to MS - 421 and continuation of the rest of the contents
MAM-477	Advanced Finite element Methods	BOS has proposed the deletion of this course.
MAM-478	Algorithmic optimization	BOS has proposed the course code be changed to MS - 422 and continuation of the rest of the contents
MAM-479	Integral Equations and Applications	BOS has proposed the course code be changed to MS - 423 and continuation of the rest of the contents
MAM-480	Bio- Mathematics	BOS has proposed the course code be changed to MS - 424 and continuation of the rest of the contents
MAM-481	Operation	BOS has proposed the deletion of this course.

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	Research	
MAM-482	Difference Equations	BOS has proposed the deletion of this course.
MAM-483	Mathematical Ecology and Epidemiology	BOS has proposed the deletion of this course.
MAM - 484	Dynamical Systems	BOS has proposed the course code be changed to MS - 427 and continuation of the rest of the contents
MAM -485	Finite Fields and Coding Theory	BOS has proposed the course code be changed to MS - 425 and continuation of the rest of the contents
MAM -486	Applied Functional Analysis - II	BOS has proposed The course title be changed to Applied Functional Analysis ; the course code be changed to MS - 426 ; replacement of the contents of this course with the contents of the course MAM - 333.

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ANNEXURE – VI (c)



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Annexure – VI (c)

Minutes of Board of Studies in Applied Mathematics

The meeting of Board of Studies in Applied Mathematics was held in the Conference Hall of Department of Mathematical Sciences on February 13, 2013 wherein following members were present.

1. Prof. A. P. Singh, Central University Rajasthan, Rajasthan
2. Dr. Zaheer Abbas, Assistant Professor, Department of Mathematical Sciences (BGSBU)
3. Dr. Javid Iqbal, Assistant Professor, Department of Mathematical Sciences (BGSBU)

The meeting started with the welcome address of Dr. Zaheer Abbas (I/C Head) to all members and appreciated their support and cooperation extended to this University from time to time and readout point wise agenda of the meeting and thread bare discussion / deliberations were held on regarding modification of syllabi in M.Sc. in Applied Mathematics and the decisions are hereby placed on record.

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M.Sc. Mathematics



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Course Code	Course Name	Resolution
Semester-I		
MAM-121	Applied Analysis	BOS has proposed continuation of Unit I & II as it is; replacement of last 3 units with new three units.
MAM-122	Differential Equations and Applications	BOS has proposed the course to be renamed as Techniques in Differential equations ; replacement of Unit -I by Unit-II (with some changes); replacement of Unit -II by Unit-III (with some changes); replacement of Unit -III by Unit-IV (with some changes) and addition of two new units.
MAM-123	Real Analysis	BOS has proposed minor changes in Unit-I and II and replacement of Unit-III, IV and V with three new units.
MAM-124	Numerical Analysis with Applications	BOS has proposed the course to be renamed as Applied Numerical Analysis ; minor changes in Unit-I and II; replacement of Unit-III by Unit-IV (with some changes); addition of a new Unit in place of Unit-IV and continuation of unit V with some changes.
MAM-125	Fundamentals of Computers	BOS has proposed the course to be renamed as Computer Fundamental and C-Programming ; continuation of Unit I as it is; minor changes in Unit-II; and replacement of Unit-III, IV and V with three new units.
MAM-127	Lab course on MAM-125	BOS has proposed continuation of this course as it is with new course code.

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M.Sc. Mathematics

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Course Code	Course Name	Resolution
Semester-II		
MAM-221	Applied Harmonic Analysis	BOS has proposed the course to be replaced by a new course namely- Fourier Analysis and Partial Differential Equations.
MAM-222	Numerical Methods for ODE	BOS has proposed the course to be replaced by a new course Numerical Linear Algebra.
MAM-223	Functional Analysis with Applications	BOS has proposed continuation of Unit-I as it is; deletion of Unit-V; addition of some topics in Unit-II, III and IV and rearrangement of this new material into 4 Units.
MAM-224	Computer Programming and numerical methods using C	BOS has proposed this course to be replaced by a new course Abstract Algebra with Applications.
MAM-225	Complex Analysis and Applications	BOS has proposed the course to be renamed as "Complex Analysis with Applications; continuation of Unit-I as it is; some changes in Unit-II; some changes in Unit-III; some changes in Unit-IV and replacement of Unit-V by a new unit.
MAM-226	Lab course on MAM-224	BOS has proposed replacement of this course by a new lab course namely - MatLab.

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