

Minutes of the B.O.S Meeting
Department of Mathematics held on May 26, 2015

A meeting of the B.O.S. of the Department of Mathematics was held on 26.05.2015 at 2.30 p.m. in the Seminar Room. The following members were present in the Meeting:

1. Prof. Naseem Ahmad	(Chairperson)
2. Prof. M. Rais Khan	Member
3. Prof. Mohd. Hasan Shahid	Member
4. Prof. A. Wafi	Member
5. Prof. S. M. K. Haider	Member
6. Prof. Ayub Khan	Member
7. Dr. Shehzad Hasan	Member
8. Dr. Arshad Khan	Member
9. Dr. M. Yahya Abbasi	Member
10. Ms. Sakshi Dhall	Member
11. Prof. H. C. Taneja, DTU, Delhi	External Member

The following decisions were taken:

1. Minutes of the meeting held on 06.04.2015 were confirmed together with point of observation raised by Prof. M. Hasan Shahid as two meetings of approved board for UGC-SAP-I programme chaired by V.C. will be held twice in a year in the month of March and November respectively while two meetings of Dept. will be conducted in the month of May and November respectively to review the lab. contingency. The minutes of the emergent B.O.S. meeting held on 15.04.2015 were also confirmed.
2. The work load and time-table were discussed and approved to implement the load and time-table as it were in the academic year 2014-15 is approved for the next academic year 2015-16. It was also resolved that the time-table distributed will not be changed unless the teacher concern is not consulted. In case of any problem, the problem will be discussed with the person concern first then change may be taken place.
3. Choice based credit system was discussed and adopted with a revision of syllabus of U.G. and P.G. The revision will be taken care by the following committee.

- Head of the Dept. (Chairman)
- Prof. Abdul Wafi (Member)
- Prof. Ayub Khan (Member)



4. The minor change in the thesis title of Ms. Sucheta Naik, the Ph. D. student of Dr. Arshad Khan (Supervisor) and Prof. R. K. Mohanty (Co-supervisor) was discussed and approved the title as follows:

Old title: Spline Function Approximation for the Solution of Non Linear Singular Boundary Value Problem

New Title: Numerical Solution of the System of Nonlinear Singular Two Point Boundary Value Problems on a Variable Mesh.

5. The panel of experts was discussed and the members were requested to furnish two names of the experts with their specialization and affiliation to the Chairman of the B.O.S. All the names will be discussed in the committee comprising the following

- Head of the Dept. (Chairman)
- Prof. M. R. Khan (Member)
- Prof. M. Hasan Shahid (Member)
- Prof. Abdul Wafi (Member)
- Prof. S. M. K. Haider (Member)
- Prof. Ayub Khan (Member)

Finally the panel will be sent and reported in the next B.O.S. meeting.

6. Under the any other item the following issues were raised and discussed

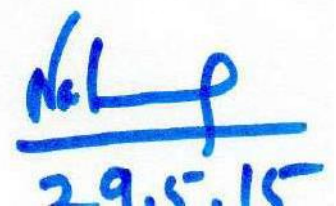
(i) Prof. M. Hasan Shahid raised the issue of the journal published by the Dept. It was decided that the journal will be published annually i.e. only one volume a year. The managing editors will be changed to

- Prof. M. Hasan Shahid
- Dr. Arshad Khan

It was also decided to review the editorial board for necessary changes, if any.

(ii) The issue regarding the payment of self-finance courses M.Sc. Tech. (IMCA) and M.A./M. Sc. (Evening) were discussed. It was reported by the Chaiman that the payment has not been made sofar inspite of the assurance given by the Finace Officer number of times. It was resolved that the HOD and co-ordinators should take the matter with Vice-Chancellor and request the payment as early as possible.

The meeting came to its end at 4.00 p.m.


29.5.15

Department of Mathematics
Faculty of Natural Science, Jamia Millia Islamia, New Delhi-25
Course Structure of M.Sc. Mathematics with Computer Science

Semester – I

S. No.	Code	Title of paper	Unit	Credit	Internal Assessment	Semester Examination	Total Marks
1	MTM-1.1	Real Analysis	4	4	25	75	100
2	MTM-1.2	Abstract Algebra	4	4	25	75	100
3	MTM-1.3C ₁ *	Discrete Mathematical Structures	4	4	25	75	100
	MTM-1.3C ₂ *	Computer Organization and Architecture					
4	MTM-1.4	Computer Fundamentals & C Programming	4	4	25	75	100
5	MTM-1.5	Numerical Analysis	4	4	25	75	100
	<i>Lab-I</i>	<i>Programming in C</i>	-	2	25	25	50

Semester – II

S. No.	Code	Title of paper	Unit	Credit	Internal Assessment	Semester Examination	Total Marks
1	MTM-2.1	Topology	4	4	25	75	100
2	MTM-2.2	Linear Algebra	4	4	25	75	100
3	MTM-2.3	Differential Equations and Applications	4	4	25	75	100
4	MTM-2.4C ₁ *	Data Structures in C	4	4	25	75	100
	MTM-2.4C ₂ *	Data Structures in Java					
5	MTM-2.5SE [#]	Object Oriented Programming using Java	4	3+1	25	75	100
6	<i>Lab-II</i>	<i>Data Structures using C/Java</i>	-	2	25	25	50

Semester – III

S. No.	Code	Title of paper	Unit	Credit	Internal Assessment	Semester Examination	Total Marks
1	MTM-3.1	Functional Analysis	4	4	25	75	100
2	MTM-3.2	Mechanics	4	4	25	75	100
3	MTM-3.3	Differential Geometry	4	4	25	75	100
4	MTM-3.4	Operating Systems	4	4	25	75	100
5	MTM-3.5C ₁ *	Software Engineering	4	4	25	75	100
	MTM-3.5C ₂ *	Object Oriented Analysis & Design					
6	MTM-3.6AE [#]	Web Designing	4	3+1	25	75	100
7	<i>Lab-III</i>	<i>Operating Systems</i>	-	2	25	25	50

Semester – IV

S. No.	Code	Title of paper	Unit	Credit	Internal Assessment	Semester Examination	Total Marks
1	MTM-4.1	Complex Analysis	4	4	25	75	100
2	MTM-4.2	Differentiable Manifolds	4	4	25	75	100
3	MTM-4.3	Wavelet Analysis	4	4	25	75	100
4	MTM-4.4	Database Management System	4	4	25	75	100
5	MTM-4.5C ₁ *	Fluid Dynamics	4	4	25	75	100
	MTM-4.5C ₂ *	Operations Research					
	MTM-4.5C ₃ *	Lattice Theory					
6	<i>Lab-IV</i>	<i>DBMS</i>	-	2	25	25	50
7	MTM-4.6MP	<i>Minor Project (Lab based)</i>	-	4	-	-	100

*CBCS papers subject to the availability of the teacher

*C: Choice Based

#AE: Ability Enhancement

#SE: Skill Enhancement

Minutes of B.O.S Meeting
Department of Mathematics held on September 09 &10, 2015

A meeting of the B.O.S. of the Department of Mathematics was held on September 09-10, 2015 at 11:00 a.m. in the Seminar Room. The following members were present in the Meeting:

- | | |
|--|-----------------|
| 1. Prof. Naseem Ahmad | (Chairperson) |
| 2. Prof. M.Hasan Shahid | Member |
| 3. Prof. A. Wafi | Member |
| 4. Prof. S. M. K. Haider | Member |
| 5. Prof. Ayub Khan | Member |
| 6. Dr. Shehzad Hasan | Member |
| 7. Dr. Arshad Khan | Member |
| 8. Dr. M.Yahya Abbasi | Member |
| 9. Ms. Sakshi Dhall | Member |
| 10. Prof. Lukman Ahmad Khan
Deptt. of Bio Sciences, JMI | External Member |

The following decisions were taken:

5. The board agreed to interview the candidates who submitted the proposal for the admission to Ph. D. in Mathematics, 2015-16 at the starting of the meeting. The criteria for admission was set as follows:

- (a) A candidate passed **B.A./B.Sc and M.A./M.Sc with I div.**
(b) One should proceed the Ph.D. in the same field of research in which he/she has completed M.Phil.

The following candidates were interview:

S. No.	Reg. No.	Name of Candidates	Proposal submitted on	Willing area of Research
1	JMIP001032	Ambreen Naz	Nonlinear Dynamics	Nonlinear Dynamics
2	JMIP003207	Alka Yadav	General type of prposal	Modern Algebra
3	JMIP004066	Vasant Kumar Mishra	Chaos Control & Syn.	Chaos Control & Syn.
4	JMIP000249	Puja Bansal	Geom. Of Sub-manifolds	Geom. of Sub-manifolds
5	JMIP000740	Showkat Ahmad Dar	Complex Analysis	Complex Analysis
6	JMIP000342	Saima Jabee	Diff. Geometry	Diff. Geometry
7	JMIP003912	Shalja Awasthi	Algebra	Algebra
8	JMIP000613	Sudhanshu Shekhar	Fracture Mechanics	Fracture Mechanics
9	JMIP001317	Savita Rani	Diff. Manifolds	Diff. Manifolds
10	JMIP001841	Sukhvinder Kaur	General Type of Proposal	Nonlinear Dynamics
11	JMIP001521	Sanyam Gupta	Self Inject. Dim of N. Ring	Modern Algebra
12	JMIP000275	Miridula Mundalia	Abstract Algebra	Abstract Algebra

13	JMIP004477	Uday Singh	Chaos Time Series	Chaos Time Series
14	JMIP004434	Umama Anwar	Diff. Geometry	Diff. Geometry
15	JMIP002353	Sabahat Ali	A study of Ideals . . .	A study of Ideals Algebra
16	JMIP003178	Vishvajit Singh	Chaos Control & Syn.	Chaos Control & Syn.
17	JMIP001781	Akif Fairooze Talee	Fuzzy Ideals in Algebra . .	Fuzzy Ideals in Algebra

On the basis of set criteria and the performance of the candidate, B.O.S. recommended the names of the following candidates for provisional admission to Ph.D. programme in Mathematics, 2015.

S.No.	Reg. No..	Name of Candidates	Broad Area	Supervisor
4	JMIP000249	Puja Bansal	Geom. Of Sub-manifolds	Prof. M.H.Shahid
15	JMIP002353	Sabahat Ali	A study of Ideals . . .	Dr. M.Yahya Abbasi
17	JMIP001781	Akif Fairooze Talee	Fuzzy Ideals in Algebra . . .	Dr. M. Yahya Abbasi

The following candidates have not been recommended

S.No.	Reg. No.	Name of Candidate	Reason(s) for not to be recommended
1	JMIP001032	Ambreen Naz	Presentation is not up to mark. Basic maths. is weak
2	JMIP003207	Alka Yadav	Performance is not satisfactory
3	JMIP004066	Vasant Kumar Mishra	Performance is not satisfactory
5	JMIP000740	Showkat Ahmad Dar	Not fulfilling the set criteria
6	JMIP000342	Saima Jabee	Not fulfilling the set criteria
7	JMIP003912	Shalja Awasthi	Not fulfilling the set criteria
8	JMIP000613	Sudhanshu Shekhar	Not fulfilling the set criteria
9	JMIP001317	Savita Rani	Her background of Maths. is not up to the mark
10	JMIP001841	Sukhvinder Kaur	No proposal to explain. Research direction is not set by her.
11	JMIP001521	Sanyam Gupta	His performance is not up to the mark. Basic maths. is not strong enough.
12	JMIP000275	Miridula Mundalia	Her performance is not up to the mark. Basic maths. is not strong enough.
13	JMIP004477	Uday Singh	Not fulfilling the set criteria
14	JMIP004434	Umama Anwar	No proposal to explain. Research direction is not set yet by her.
16	JMIP003178	Vishvajit Singh	No proposal to explain. Research direction is not yet set by him.

The meeting was adjourned for 10.09.2015 at 11:00 am

On 10.09.2015, the following members were present:

- | | |
|--------------------------|---------------|
| 1. Prof. Naseem Ahmad | (Chairperson) |
| 2. Prof. M.Hasan Shahid | Member |
| 3. Prof. A. Wafi | Member |
| 4. Prof. S. M. K. Haider | Member |
| 5. Prof. Ayub Khan | Member |
| 6. Dr. Shehzad Hasan | Member |
| 7. Dr. Arshad Khan | Member |
| 8. Dr. M.Yahya Abbasi | Member |

The following decisions were taken:

1. The minutes of B.O.S. meeting held on 26.05. 2015 were confirmed by circulation while the minutes of emergent B.O.S. meeting held on July 27-28, 2015 were discussed and confirmed with minor corrections.
2. HoD reported that the panel of experts was sent to the administration.
3. The syllabi of UG and PG courses, Sem. I were discussed in meeting of sub-committee of BOS on 8.9.2015. The syllabi of U.G. & P.G. courses, Sem. I were approved.
4. The examiners for UG and PG have been discussed and Chair was authorised to appoint the Examiners/ Moderators for the Odd semester examination 2015.
5. This agenda has already discussed in the starting.
6. The matter regarding the additional space was discussed and it was unanimously decided to request the administration to allocate additional space to the department to accommodate the faculty members to be appointed in near future.
7. Under any other item, the faculty members thanks to Prof. Naseem Ahmad for his contribution and upliftment of the department during his tenure as Head of the Department.

The meeting came to its end at **1:30 pm** with vote of thanks to the Chair.

Confirmation by circulation of the minutes of BOS held on 14-Dec-2015.

2 messages

HoD, Mathematics, JMI <mathematics@jmi.ac.in>

Tue, Jan 19, 2016 at 1:08 PM

To: "Abdul Wafi (HoD, Mathematics)" <awafi@jmi.ac.in>, Mohammad Khan <mrkhan2@jmi.ac.in>, "Ayub khan (professor)" <akhan12@jmi.ac.in>, Arshad Khan <akhan2@jmi.ac.in>, Mohammad Abbasi <mabbasi@jmi.ac.in>, "Naseem Ahmad (Professor, D/o Mathematics)" <nahmad4@jmi.ac.in>, "Sakshi Dhall, Asstt. Professor, Maths" <sdhall@jmi.ac.in>, "Prof. S.M. Haider (D/o Mathematics)" <shaider@jmi.ac.in>, Shehzad Hasan <shasan@jmi.ac.in>, "Prof. M. Hasan Shahid" <mshahid@jmi.ac.in>, "Ahmad Kamal (Asstt. Prof. D/o Mathematics)" <akamal1@jmi.ac.in>, izhar uddin Uddin <izharuddin.rm@gmail.com>

Minutes of the B.O.S Meeting

Department of Mathematics held on December 14, 2015

A meeting of the B.O.S. of the Department of Mathematics was held on 14.12.2015 at 3.30 p.m. in the Seminar Room. The following members were present in the Meeting:

- | | |
|-----------------------------|-----------------|
| 1. Prof. Abdul Wafi | (Chairperson) |
| 2. Prof. M. Rais Khan | Member |
| 3. Prof. Mohd. Hasan Shahid | Member |
| 4. Prof. Naseem Ahmad | Member |
| 5. Prof. S. M. K. Haider | Member |
| 6. Dr. Shehzad Hasan | Member |
| 7. Dr. Arshad Khan | Member |
| 8. Dr. M.Yahya Abbasi | Member |
| 9. Dr. Ahmad Kamal | Member |
| 10. Dr. Izhar Uddin | Member |
| 11. Prof. Luqman A. Khan | External Member |

At the outset, Prof. Naseem Ahmad welcomed Prof. Abdul Wafi as a new HOD. The HOD welcomed Dr. Ahmad Kamal and Dr. Izhar Uddin who have recently joined the department as faculty members.

1. The Minutes of the BOS meeting held on 09.09.2015 and adjourn meeting held on 10.09.2015 were discussed and confirmed with some minor correction.
2. There were typographical errors in the item no. 5 of minutes of BOS meeting held on September 09-10, 2015 regarding Ph.D admission programme 2015. The minutes of agenda item no.5 should be read as follows:

Name		
Pooja Bansal	A Study of Geometry	A Study of Geometry of Submanifolds
Sabahat Ali Khan	A Study of Ideals....	A Study of Ideals in Algebraic System
Aakif Fairooze Talee	Fuzzy Ideals in Algebra.....	Some Contributions to Fuzzy Ideals in Algebraic System

3. Distribution of teaching load for even semester of UG and PG courses were discussed and approved. HOD was authorised to do minor changes, if required.
4. Confirmation of UG and PG course structures and syllabi for second semester in the light of CBCS were discussed and approved.
5. The appointment of examiners for UG and PG even semester examinations, 2016 were discussed and approved. HOD was authorised to do minor changes, if required.
6. Various committees were formed and approved for smooth functioning of the departmental affairs.
7. Under any other item, Prof. Mohd. Hasan Shahid suggested to re-introducing the course on Mathematical Modelling and Computer Simulation in M.Sc. Tech. (IMCA). The board agreed on his suggestion.

The meeting came to an end at 4.30 p.m. with the vote of thanks to the chair.

(Prof. Abdul Wafi)

Head

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Minutes of BOS held on May 05,2016

1 message

HoD, Mathematics, JMI <mathematics@jmi.ac.in>

Sat, Jun 4, 2016 at 3:48 PM

To: "Prof. M. Hasan Shahid" <mshahid@jmi.ac.in>, "Naseem Ahmad (Professor, D/o Mathematics)" <nahmad4@jmi.ac.in>, "Prof. S.M. Haider (D/o Mathematics)" <shaider@jmi.ac.in>, "Ayub khan (professor)" <akhan12@jmi.ac.in>, Arshad Khan <akhan2@jmi.ac.in>, Mohammad Abbasi <mabbasi@jmi.ac.in>, Shehzad Hasan <shasan@jmi.ac.in>, "Sakshi Dhall, Asstt. Professor, Maths" <sdhall@jmi.ac.in>, "Ahmad Kamal (Asstt. Prof. D/o Mathematics)" <akamal1@jmi.ac.in>, "Izhar Uddin (Asstt. Prof., D/o Mathematics)" <izharuddin1@jmi.ac.in>, Mohammad Khan <mrkhan2@jmi.ac.in>

Dear Colleagues,

Please find the minutes of BOS held on May 05,2016.
Please give your comments/opinion, if any by June 10, 2016.

With regards,

Prof. Abdul Wafi
Head

Department of Mathematics

Minutes of B.O.S Meeting held on May 05, 2016

A meeting of B.O.S. of the Department of Mathematics was held on 05.05.2016 at 3.30 p.m. in the Seminar Room. The following members were present in the meeting:

1. Prof. Mursaleen AMU, Aligarh (External member)
2. Prof. Luqman A Khan (External member)
3. Prof. Abdul Wafi (Chairperson)
4. Prof. Mohd. Hasan Shahid Member
5. Prof. Naseem Ahmad Member
6. Prof. S. M. K. Haider Member
7. Prof. Ayub Khan Member
8. Dr. Shehzad Hasan Member
9. Dr. Arshad Khan Member
10. Dr. Mohd. Yahya Abbasi Member
11. Ms. Shakshi Dhall Member
12. Dr. Ahmad Kamal Member
13. Dr. Izhar Uddin Member

The following decisions were taken:

1. The Minutes of the BOS meeting held on 14.12.2015 and emergent BOS meetings held on 02.02.2016 and 26.02.2016 were confirmed.

2. The board discussed and approved the course structure and syllabi of UG and PG courses offered by Department of Mathematics under CBCS.

3. The board discussed and agreed to organize a conference entitled **International Conference on Differential Geometry, Algebra and Analysis** which is scheduled to be held during November 15-17, 2016 and formed the following committee:**Convener:** Prof. Mohd. Hasan Shahid**Organizing Secretaries:** Dr. Arshad Khan, Dr. Mohd. Yahya Abbasi and Dr. Izhar Uddin

4. The board approved the distribution of teaching load for odd semester of UG and PG courses and HOD was authorized to do minor changes, if required.

5. The board approved the name of the examiner for B.Sc. (Hons) VI semester viva-voce examination.

7. The board approved the names of examiners for Ph.D. course work.

8. The board approved the following names of external experts for moderation committee of UG and PG courses.

UG- Prof. Noor Muhammad Khan

PG- (i) Prof. L.M. Saha, (ii) Prof. M.N. Hoda and (iii) Dr. S.K. Naqvi

9. The progress report of JMI International Journal of Mathematical Sciences was placed for discussion and after deliberation a new editorial committee was formed for smooth and timely publication of the journal. The following names were proposed and approved:

Managing editor: Prof. Mohd. Hasan Shahid

Associate editors: Dr. Shehzad Hasan, Dr. Arshad Khan and Dr. Mohd Yahya Abbasi

The meeting came to an end at 4.45 p.m. with the vote of thanks to the chair.

(Prof. Abdul Wafi)

Head

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B.Sc.(Hons.) Applied Mathematics (2016-17)

Course Structure

<u>Semester- I</u>	<u>Semester- II</u>	<u>Semester- III</u>
<u>Semester- IV</u>	<u>Semester- V</u>	<u>Semester- VI</u>

**Department of Mathematics
Faculty of Natural Science
Jamia Millia Islamia, New Delhi-25**

COURSE STRUCTURE

Semester – I

Code	Title of Paper	Unit	Credit	Maximum Marks
BAM-111	<u>Calculus</u>	4	4	100
BAM-112	<u>Analytical Geometry</u>	4	4	100
BAM-113 (GE-1) ^{*#}	<u>C1. Set Theory and Number Theory</u> <u>C2. Computer Fundamentals</u>	4	4	100
BAM-114 (AE-1)	<u>English/MIL Communication</u>	4	4	100

Semester – II

BAM-211	<u>Differential Equations</u>	4	4	100
BAM-212	<u>Statistical Techniques</u>	4	4	100
BAM-213 (GE-2) ^{*#}	<u>C1. Programming in C (P)</u> <u>C2. Econometrics</u>	4	4	100
BAM-214 (AE-2)	<u>English/MIL Communication</u>	4	4	100

Semester – III

BAM-311	<u>PDE and System of ODE</u>	4	4	100
BAM-312	<u>Numerical Methods</u>	4	4	100
BAM-313	<u>Group Theory</u>	4	4	100
BAM-314 (GE-3) ^{*#}	<u>C1. Information Security</u> <u>C2. OOPs in C++ (P)</u>	4	4	100
BAM-315 (SE-1) ^{*#}	<u>C1. Latex & Web Designing</u> <u>C2. Computer Graphics</u>	4	4	100

Semester – IV

BAM-411	<u>Real Analysis</u>	4	4	100
BAM-412	<u>Ring Theory</u>	4	4	100
BAM-413	<u>Linear Programming</u>	4	4	100
BAM-414 (GE-4) ^{*#}	<u>C1. Mathematical Modelling</u> <u>C2. Data Structures (P)</u>	4	4	100
BAM-415 (SE-2) ^{*#}	<u>C1. Graph Theory</u> <u>C2. Fuzzy Sets and Logics</u>	4	4	100

Semester – V

BAM-511	<u>Riemann Integration and Series of Functions</u>	4	4	100
BAM-512	<u>Multivariate Calculus</u>	4	4	100
BAM-513	<u>Integral Transforms & Applications</u>	4	4	100
BAM-514	<u>Linear Algebra</u>	4	4	100
BAM-515 (DS-1) ^{*#}	<u>C1. Modelling and Simulation</u> <u>C2. Discrete Mathematics</u>	4	4	100
BAM-516 (DS-2) ^{*#}	<u>C1. Mathematical Finance</u> <u>C2. Dynamical Systems</u>	4	4	100

Semester – VI

BAM-611	<u>Integral Equations and Calculus of Variations</u>	4	4	100
BAM-612	<u>Complex Analysis</u>	4	4	100
BAM-613	<u>Geometry of Curves and Surfaces</u>	4	4	100
BAM-614	<u>Mechanics</u>	4	4	100
BAM-615 (DS-3) ^{*#}	<u>C1. Metric Spaces</u> <u>C2. Bio-Mathematics</u>	4	4	100
BAM-616 (DS-4) ^{*#}	<u>C1. Industrial Mathematics</u> <u>C2. Coding theory</u>	4	4	100



B.Sc.(Hons.) Mathematics (2016-17)

Course Structure Structure

<u>Semester- I</u>	<u>Semester- II</u>	<u>Semester- III</u>
<u>Semester- IV</u>	<u>Semester- V</u>	<u>Semester- VI</u>

Department of Mathematics
Faculty of Natural Sciences
Jamia Millia Islamia, New Delhi-25

COURSE STRUCTURE

Semester – II

Code	Title of Paper	Unit	Credit	Maximum Marks
BHM-111	Calculus	4	4	100
BHM-112	Analytical Geometry	4	4	100
BHM-113 (GE-1) *#	C1. Set Theory and Number Theory C2. Computer Fundamentals	4	4	100
BHM-114 (AE-1)	English/MIL Communication	4	4	100

Semester – III

BHM-211	Differential Equations	4	4	100
BHM-212	Statistical Techniques	4	4	100
BHM-213 (GE-2) *#	C1. Programming in C (P) C2. Econometrics	4	4	100
BHM-214 (AE-2)	English/MIL Communication	4	4	100

Semester – IIII

BHM-311	PDE and System of ODE	4	4	100
BHM-312	Numerical Methods	4	4	100
BHM-313	Group Theory	4	4	100
BHM-314 (GE-3) *#	C1. Information Security C2. OOPs in C++ (P)	4	4	100
BHM-315 (SE-1) *#	C1. Latex & Web Designing C2. Computer Graphics	4	4	100

Semester – IV

BHM-411	Real Analysis	4	4	100
BHM-412	Ring Theory	4	4	100
BHM-413	Linear Programming	4	4	100
BHM-414 (GE-4) *#	C1. Mathematical Modelling C2. Data Structures (P)	4	4	100
BHM-415 (SE-2) *#	C1. Graph Theory C2. Fuzzy Sets and Logics	4	4	100

Semester – V

BHM-511	Riemann Integration and Series of Functions	4	4	100
BHM-512	Multivariate Calculus	4	4	100
BHM-513	Metric Spaces	4	4	100
BHM-514	Linear Algebra	4	4	100
BHM-515 (DS-1) *#	C1. Modelling and Simulation C2. Discrete Mathematics	4	4	100
BHM-516 (DS-2) *#	C1. Mathematical Finance C2. Dynamical Systems	4	4	100

Semester – VI

BHM-611	Integral Equations and Calculus of Variations	4	4	100
BHM-612	Complex Analysis	4	4	100
BHM-613	Differential Geometry	4	4	100
BHM-614	Mechanics	4	4	100
BHM-615 (DS-3) *#	C1. Boolean Algebra and Automata Theory C2. Bio-Mathematics	4	4	100
BHM-616 (DS-4) *#	C1. Industrial Mathematics C2. Applications of Algebra	4	4	100