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THE NATIONAL COLLEGE BASAVANAGUDI, BENGALURU-04

AUTONOMOUS

Website: www.ncbgudi.com

DEPARTMENT OF MATHEMATICS
BOARD OF STUDIES PROCEEDINGS

Academic year

2015-16 to 2018-2019

Year 2019-2020

Meeting Notice

THE NATIONAL DEGREE COLLEGE BASAVANAGUDI, BANGALORE-560 004

[AUTONOMOUS]

DEPARTMENT OF MATHEMATICS

Date: 03-06-2019

To,

Dear Sir/Madam,

Sub: Meeting of the Board of Studies in Mathematics

I thank you sincerely for having been kind enough to accept our invitation to be a member of Board of Studies in Mathematics. With your guidance, we would achieve most of our academic goals. Keeping this in view, I reiterate my request to you to be a member of the BOS and be the guiding spirit in our academic activities during the academic year 2019-20.

I take pleasure informing you that the Board of Studies Meeting in Mathematics is scheduled to be held **on 12th June 2019 at 10-30 A.M.** in the Department of Mathematics, The National College [Autonomous], Basavanagudi, Bangalore-04 to discuss following agenda.

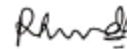
I request you to make it convenient to attend the meeting. We look forward to your august presence in the meeting.

Agenda:

1. Discussion in detail on III & IV Semester B.Sc Syllabus
2. Approval of Panel of External Examiners and Board of Examiners.
3. Any other subject.

Thanking you,

Yours sincerely,



P. Sundramma
Chairperson
Board of Studies in Mathematics
The National College,
Autonomous,
Basavanagudi, Bengaluru-4



ಶ್ರದ್ಧಾಹಿ ಪರಮಾರ್ಥಿ:

**THE NATIONAL COLLEGE
AUTONOMOUS
BASAVANAGUDI, BANGALORE – 560 004**

**DEPARTMENT OF MATHEMATICS
Proceedings of Board of Studies Meeting held on 12-06-2019**

Members Present:

1. Dr. Medha Itagi Huilgol, Department of Mathematics, Bangalore Central University, Central College, Dr. Ambedkar Veedhi, Bangalore- 560 001.
2. Dr. H. G. Nagaraja, Department of Mathematics, Bangalore University, Jnana Bharathi Campus, Bangalore.
3. Dr. M. C. Mahesh Kumar , Assistant Professor, Department of Mathematics Government First Grade College, K. R. Puram, Bangalore.
4. Sri. B.S. Sudarshan, Industrialist, Bangalore
5. Sri. I.C. Ballur, Assistant Professor in Mathematics, The National College, Basavanagudi, Bangalore-560 004.
6. Sri. K. Keshavan, Assistant Professor in Mathematics, The National College, Basavanagudi, Bangalore-560 004.
7. Smt. Kavya. G. M, Assistant Professor in Mathematics, The National College, Basavanagudi, Bangalore-560 004.
8. Smt. Nagashree. M. B, Assistant Professor, The National College, Basavanagudi, Bangalore-560 004
9. Smt. P. Sundramma, H. O. D, Associate Professor in Mathematics, The National College, Basavanagudi, Bangalore-560 004.


Head of the Department of Mathematics
The National Degree College, Autonomous
Basavanagudi, Bangalore - 04.

The National College

Autonomous
Basavanagudi, Bangalore – 560 004

DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on 12.06.2019 at 10.00 am at
The National College, Basavanagudi, Bangalore – 560 004.

MEMBERS PRESENT:

1. **Dr. MEDHA ITAGI HUILGOL**

Department of Mathematics,
Bangalore Central University,
Central College, Dr. Ambedkar Veedhi,
Bangalore- 560 001.

SIGNATURE

Medha Itagi
12/06/19.

2. **Dr. H. G. NAGARAJA**

Department of Mathematics,
Bangalore University,
Jnana Bharathi Campus
Bangalore.

H. G. Nagaraja

3. **Dr. M. C. MAHESH KUMAR**

Assistant Professor, Department of Mathematics
Government First Grade College, K. R. Puram
Bangalore.

M. C. Mahesh Kumar
12/06/19

4. **Sri. B.S. SUDARSHAN**

Industrialist
Bangalore

B. S. Sudarshan
12/06/2019

5. **Sri. I.C. BALLUR**

Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

I. C. Ballur
12/06/19.

6. **Sri. K. KESHAVAN**

Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

K. Keshavan
12/06/19

7. **Smt. KAVYA. G. M**
Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

Kavya

8. **Smt. NAGASHREE. M. B**
Assistant Professor
The National College (Autonomous)
Basavanagudi, Bangalore-560 004

Nagashree
12/6/19.

9. **Smt. P. SUNDRAMMA**
H. O. D, Associate Professor in Mathematics,
The National College,
Bangalore-560 004.

P. Sundamma

Proceedings:

1. Prof. P. Sundramma, HOD of Mathematics, NCB extended a warm welcome to all the members.
2. The committee discussed the syllabi of III and IV semester B. Sc Mathematics and Interdisciplinary paper.
3. Dr. Medha Itagi Huilgol, Dr. H. G. Nagaraja and Dr. M. C. Mahesh Kumar suggested a reference book Terence Tao for Real analysis. The members suggested to refer more Indian author books.
4. Sri. B.S. Sudarshan suggested to introduce Fuzzy set for B. Sc course. Dr. Medha Itagi Huilgol and Dr. H. G. Nagaraja said that only the basic of Fuzzy sets can be introduced to final year B. Sc since the subject is very vast.
5. The members appreciated the interdisciplinary syllabus as it is useful for competitive examination and entrance examination for higher studies.
6. The proposed new syllabi of Mathematics subject of B.Sc. course from III and IV Semesters incorporating 'practical' using FOSS (Free and Open Source Software) tools and Inter-Disciplinary Subject for Non-Mathematics Courses B. Com, B.A. and B. Sc (CBZ) was discussed in detail by the honorable members and decided to implement it from the academic year 2019-2020.


Head of the Department of Mathematics
The National Degree College, Autonagar
Bisavanagudi, Bangalore - 560022

MAT-C3: Mathematics-III

Unit-I: GROUPS	14 Hours
Unit – II: REAL ANALYSIS-I: Sequences of Real Numbers	10 Hours
Unit – III: DIFFERENTIAL CALCULUS	16 Hours
Unit-IV : DIFFERENTIAL EQUATION-II	14 Hours

MAT-C4 : Mathematics-IV

Unit-I: ALGEBRA-IV: Normal Subgroups	14 Hours
Unit - II : REAL ANALYSIS-II: Series of Real Numbers	16 Hours
Unit - III : FOURIER SERIES	10 Hours
Unit-IV : MATHEMATICAL METHODS-I: Laplace transform	14 Hours

UG-ID-MAT : Elementary Mathematics

Unit-I: Number System and Number Series	4 Hours
Unit – II: Ratio-Proportion	4 Hours
Unit – III: Percentage	4 Hours
Unit-IV: Average	3 Hours
Unit-V: Permutation and Combination	4 Hours
Unit-VI: Linear Equations- Their Application and Problems Based on Age	4 Hours
Unit-VII: Set Theory	4 Hours

The syllabus was approved by the panel.

List of Approved BOE Members:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
3.	Dr. N. NAGARATHNA	Maharani's Science College for Women, Bangalore-560 001
4.	Dr. M. C. MAHESH KUMAR	Assistant Professor, Department of Mathematics, Government First Grade College, K. R. Puram Bangalore.
5.	H.G. AMARAPRABHU	Assistant Professor , The National College, Autonomous, Jayanagar.

6.	Prof P. SUNDRAMMA	H. O. D, Associate Professor in Mathematics, The National College, Bangalore-560 004.
7.	Prof. I.C. BALLUR	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
8.	Prof. K. KESHAVAN	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
9.	Prof. KAVYA. G. M	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
10.	Prof. NAGASHREE. M. B	Assistant Professor in Mathematics, The National College, Bangalore-560 004.

List of Approved External Examiners:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
3.	Dr. N. NAGARATHNA	Maharani's Science College for Women, Bangalore-560 001
4.	Dr. M. C. MAHESH KUMAR	Assistant Professor, Department of Mathematics, Government First Grade College, K. R. Puram Bangalore.
5.	H.G. AMARAPRABHU	Assistant Professor , The National College, Autonomous, Jayanagar.
6.	DIVYA V	Assistant Professor ,Maharani's science college for women.
7.	NIRMALA ALIAS SANTI	Assistant Professor, Maharani's science college for women
8.	AGAMUM UJWALA	Assistant Professor, Maharani's science college for women.
9.	ASHWINI	Assistant Professor ,Maharani's science college for women.
10.	NIRMALA S	Assistant Professor ,The National College, Autonomous, Jayanagar.
11.	SHWETHA K UDUPA	Assistant Professor ,The National College, Autonomous, Jayanagar.
12.	NAGAMANI K	Assistant Professor ,The National College, Autonomous, Jayanagar.

Year 2018-2019

Meeting Notice

THE NATIONAL DEGREE COLLEGE BASAVANAGUDI, BANGALORE-560 004

[AUTONOMOUS]

DEPARTMENT OF MATHEMATICS

Date: 01-06-2018

To,

Dear Sir/Madam,

Sub: Meeting of the Board of Studies in Mathematics

I thank you sincerely for having been kind enough to accept our invitation to be a member of Board of Studies in Mathematics. With your guidance, we would achieve most of our academic goals. Keeping this in view, I reiterate my request to you to be a member of the BOS and be the guiding spirit in our academic activities during the academic year 2018-19.

I take pleasure informing you that the Board of Studies Meeting in Mathematics is scheduled to be held **on 9th June 2018 at 2:30 P.M.** in the Department of Mathematics, The National College [Autonomous], Basavanagudi, Bangalore-04 to discuss following agenda.

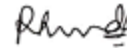
I request you to make it convenient to attend the meeting. We look forward to your august presence in the meeting.

Agenda:

1. Discussion in detail on I & II Semester B.Sc, B.C.A and B. Com Syllabus
2. Approval of Panel of External Examiners and Board of Examiners.
3. Any other subject.

Thanking you,

Yours sincerely,



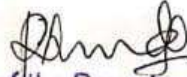
P. Sundramma
Chairperson
Board of Studies in Mathematics
The National College,
Autonomous,
Basavanagudi, Bengaluru-4

The National College
Autonomous
Basavanagudi, Bangalore – 560 004
DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on 09.06.2018 at 2.30 pm at The National College, Basavanagudi, Bangalore – 560 004.

MEMBERS PRESENT:

1. **Dr. I. S. Shivakumara**, Vice-Chancellor and Professor of Mathematics, Bangalore University, Bangalore.
2. **Dr. H G Nagaraj**, Chairman, Department of Mathematics, Bangalore University Bengaluru
3. **Dr. Mahadeva Naika**, Department of Mathematics, Bangalore University, Bangalore.
4. **Sri. B.S. Sudarshan**, Industrialist, Bangalore
5. **Dr. Chitra Ramaprakash**, Assistant Professor, Department of Mathematics, Vijaya College, Bangalore.
6. **Sri. K. Keshavan**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
7. **Smt. Kavya. G. M**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
8. **Smt. P. Sundaramma, H. O. D**, Associate Professor in Mathematics, The National College, Bangalore-560 004.



Head of the Department of Mathematics
The National Degree College, Autonomous
Basavanagudi, Bangalore - 04.

The National College
Autonomous
Basavanagudi, Bangalore – 560 004
DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on 09.06.2018 at 2.30 pm at
The National College, Basavanagudi, Bangalore – 560 004.

MEMBERS PRESENT:

1. **Dr. I. S. Shivakumara**
Vice-Chancellor and Professor of Mathematics,
Bangalore University,
Bangalore.
2. **Dr. H G Nagaraj.**
Chairman,
Department of Mathematics
Bangalore University
Bengaluru
3. **Dr. Mahadeva Naika**
Department of Mathematics,
Bangalore University,
Bangalore
4. **Sri. B.S. Sudarshan**
Industrialist
Bangalore
5. **Dr. Chitra Ramaprakash**
Assistant Professor, Department of Mathematics
Vijaya College.
Bangalore.
6. **Smt. Gayathri K. S.**
Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.
7. **Sri. K. Keshavan**
Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

SIGNATURE

I. S. Shivakumara

H. G. Nagaraj

Mahadeva Naika


Chitra

Keshavan. K

7. **Smt. Kavya. G. M**
Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.



8. **Smt. P. Sundaramma**
H. O. D, Associate Professor in Mathematics,
The National College,
Bangalore-560 004.



Proceedings:

1. Prof. P. Sundramma, HOD of Mathematics, NCB extended a warm welcome to all the members.
2. The committee discussed the syllabi of Mathematics subject of B.Sc. course for I and II Semesters incorporating 'practical' using FOSS (Free and Open Source Software) tools and I and II Semester B. C. A and B. Com.
3. Dr. I. S. Shivakumara appreciated the syllabus for I and II semester B.Sc, designed by department of Mathematics.
4. Dr. H G Nagaraj and Dr. Mahadeva Naika suggested to introduce LU decomposition method by replacing Runge- kutta method in numerical analysis for II semester B.C.A.
5. The proposed new syllabi of Mathematics subject of B.Sc. course from I and II Semesters incorporating 'practical' using FOSS (Free and Open Source Software) tools and I and II Semester B. C. A and B. Com was discussed in detail by the honorable members and decided to implement it from the academic year 2018-2019.
6. Finally, the H.O.D. of Mathematics thanked the members of B.O.S.


Head of the Department of Mathematics
The National Degree College, Autonomous,
Basavanagudi, Bangalore - 04.

List of Approved BOE Members:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
3.	Dr. N. NAGARATHNA	Maharani's Science College for Women, Bangalore-560 001
4.	Dr. M. C. MAHESH KUMAR	Assistant Professor, Department of Mathematics, Government First Grade College, K. R. Puram Bangalore.
5.	H.G. AMARAPRABHU	Assistant Professor, The National College, Autonomous, Jayanagar.
6.	Prof P. SUNDRAMMA	H. O. D, Associate Professor in Mathematics, The National College, Bangalore-560 004.
7.	Prof. GAYATHRI K. S.	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
8.	Prof. K. KESHAVAN	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
9.	Prof. KAVYA. G. M	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
10.	Prof. NAGASHREE. M. B	Assistant Professor in Mathematics, The National College, Bangalore-560 004.

List of Approved External Examiners:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
3.	Dr. N. NAGARATHNA	Maharani's Science College for Women, Bangalore-560 001
4.	Dr. M. C. MAHESH KUMAR	Assistant Professor, Department of Mathematics, Government First Grade College, K. R. Puram Bangalore.
5.	H.G. AMARAPRABHU	Assistant Professor, The National College, Autonomous, Jayanagar.
6.	DIVYA V	Assistant Professor, Maharani's science college for women.
7.	NIRMALA ALIAS SANTI	Assistant Professor, Maharani's science college for women
8.	AGAMUM UJWALA	Assistant Professor, Maharani's science college for women.

9.	ASHWINI	Assistant Professor, Maharani's science college for women.
10.	NIRMALA S	Assistant Professor ,The National College, Autonomous, Jayanagar.
11.	SHWETHA K UDUPA	Assistant Professor ,The National College, Autonomous, Jayanagar.
12.	NAGAMANI K	Assistant Professor ,The National College, Autonomous, Jayanagar.

Year 2017-2018

Meeting Notice

THE NATIONAL DEGREE COLLEGE BASAVANAGUDI, BANGALORE-560 004

[AUTONOMOUS]

DEPARTMENT OF MATHEMATICS

Date: 02-06-2017

To,

Dear Sir/Madam,

Sub: Meeting of the Board of Studies in Mathematics

I thank you sincerely for having been kind enough to accept our invitation to be a member of Board of Studies in Mathematics. With your guidance, we would achieve most of our academic goals. Keeping this in view, I reiterate my request to you to be a member of the BOS and be the guiding spirit in our academic activities during the academic year 2017-18.

I take pleasure informing you that the Board of Studies Meeting in Mathematics is scheduled to be held **on 14th June 2017 at 10:30 A.M.** in the Department of Mathematics, The National College [Autonomous], Basavanagudi, Bangalore-04 to discuss following agenda.

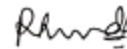
I request you to make it convenient to attend the meeting. We look forward to your august presence in the meeting.

Agenda:

1. Discussion in detail on V & VI Semester B.Sc Syllabus
2. Approval of Panel of External Examiners and Board of Examiners.
3. Any other subject.

Thanking you,

Yours sincerely,



P. Sundramma
Chairperson
Board of Studies in Mathematics
The National College,
Autonomous,
Basavanagudi, Bengaluru-4

The National College
Autonomous
Basavanagudi, Bangalore – 560 004
DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on 14.06.2017 at 10:30 A.M. at The National College, Basavanagudi, Bangalore – 560 004.

MEMBERS PRESENT:

1. **Dr. I. S. Shivakumara**, Department of Mathematics, Dean, Faculty of Science, Bangalore University, Central College, Dr. Ambedkar Veedhi, Bangalore-01.
2. **Dr. H G Nagaraj**, Chairman, Department of Mathematics, Bangalore University Bengaluru
3. **Sri. B.S. Sudarshan**, Industrialist, Bangalore
4. **Prof. Vittal V. Kulkarni**, Department of Mathematics, Vijaya First Grade College, Bangalore.
5. **Smt. Gayathri K. S**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
6. **Sri. K. Keshavan**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
7. **Smt. Kavya. G. M**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
8. **Smt. P. Sundaramma, H. O. D**, Associate Professor in Mathematics, The National College, Bangalore-560 004.


Head of the Department of Mathematics:
The National Degree College, Autonomous
Basavanagudi, Bangalore - 04.

The National College

Autonomous

Basavanagudi, Bangalore – 560 004

DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on 14.06.2017 at 10.30 am at
The National College, Basavanagudi, Bangalore – 560 004.

MEMBERS PRESENT:

1. **Dr. I. S. Shivakumara**
Department of Mathematics,
Dean, Faculty of Science,
Bangalore University,
Central College, Dr. Ambedkar Veedhi,
Bangalore- 560 001.
2. **Dr. Nagaraja H G**
Chairman, Department of Mathematics,
Bangalore University,
Central College, Dr. Ambedkar Veedhi,
Bangalore- 560 001.
3. **Dr. Pradeep G. Siddeshwar**
Dept. of Mathematics,
Bangalore University
Jnana Bharathi Campus
Bangalore 560 056,
4. **Sri. B.S. Sudarshan**
Industrialist
Bangalore
5. **Prof. Anantha Rangan**
Department of Mathematics,
The National College,
Bangalore-560 004.
6. **Prof. Vittal V. Kulkarni**
Department of Mathematics,
Vijaya First Grade College,
Bangalore.
7. **Smt. Gayathri K. S.**
Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

SIGNATURE

I. S. Shivakumara
14/6/17

H Nagaraja

Pradeep G. Siddeshwar

Vittal V. Kulkarni 14/6/17

Gayathri K. S.

8. Sri. K. Keshavan

Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

Keshavan.K
14/6/17

9. Smt. Shwetha. C.

Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

10. Smt. Kavya. G. M

Assistant Professor in Mathematics,
The National College,
Bangalore-560 004.

Shwetha.C
14/6/17

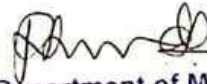
11. Smt. P. Sundaramma

H. O. D, Associate Professor in Mathematics,
The National College,
Bangalore-560 004.

P.Sundaramma
14/6/17

Proceedings:

1. Prof. P. Sundramma, HOD of Mathematics, NCB extended a warm welcome to all the members.
2. The committee discussed the syllabi of Mathematics subject of B.Sc. course for V and VI Semesters incorporating 'practical' using FOSS (Free and Open Source Software) tools.
3. Dr. I. S. Shivakumara and Dr. Nagaraja H G both are suggested to reduce the theory class four hours to three hours per week, due to introducing of mathematics lab.
4. The proposed new syllabi of Mathematics subject of B.Sc. course for V and VI Semesters incorporating 'practical' using FOSS (Free and Open Source Software) tools was discussed in detail by the honorable members and decided to implement it from the academic year 2017-2018.
5. Finally, the H.O.D. of Mathematics thanked the members of B.O.S.



Head of the Department of Mathematics
The National Degree College, Autonomous
Basavanagudi, Bangalore - 04.

List of Approved BOE Members:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
3.	Dr. N. NAGARATHNA	Maharani's Science College for Women, Bangalore-560 001
4.	Dr. M. C. MAHESH KUMAR	Assistant Professor, Department of Mathematics, Government First Grade College, K. R. Puram Bangalore.
5.	Prof CHANDRA SETTY	Department of Mathematics, The National Degree College, Jayanagar,Bangalore- 560 070
6.	H.G. AMARAPRABHU	Assistant Professor, The National College, Autonomous, Jayanagar.
7.	Prof P. SUNDRAMMA	H. O. D, Associate Professor in Mathematics, The National College, Bangalore-560 004.
8.	Prof. GAYATHRI K. S.	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
9.	Prof. K. KESHAVAN	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
10.	Prof. KAVYA. G. M	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
11.	Prof. SHWETHA C	Assistant Professor in Mathematics, The National College, Bangalore-560 004.

List of Approved External Examiners:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
3.	Dr. N. NAGARATHNA	Maharani's Science College for Women, Bangalore-560 001
4.	Dr. M. C. MAHESH KUMAR	Assistant Professor, Department of Mathematics, Government First Grade College, K. R. Puram Bangalore.
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9.	ASHWINI	Assistant Professor, Maharani's science college for women.
10.	NIRMALA S	Assistant Professor, The National College, Autonomous, Jayanagar.
11.	SHWETHA K UDUPA	Assistant Professor, The National College, Autonomous, Jayanagar.
12.	NAGAMANI K	Assistant Professor, The National College, Autonomous, Jayanagar.

Year 2016-2017

Meeting Notice

THE NATIONAL DEGREE COLLEGE BASAVANAGUDI, BANGALORE-560 004

[AUTONOMOUS]

DEPARTMENT OF MATHEMATICS

Date: 06-06-2016

To,

Dear Sir/Madam,

Sub: Meeting of the Board of Studies in Mathematics

I thank you sincerely for having been kind enough to accept our invitation to be a member of Board of Studies in Mathematics. With your guidance, we would achieve most of our academic goals. Keeping this in view, I reiterate my request to you to be a member of the BOS and be the guiding spirit in our academic activities during the academic year 2016-17.

I take pleasure informing you that the Board of Studies Meeting in Mathematics is scheduled to be held **on 23rd June 2016 at 10:30 A.M.** in the Department of Mathematics, The National College [Autonomous], Basavanagudi, Bangalore-04 to discuss following agenda.

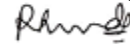
I request you to make it convenient to attend the meeting. We look forward to your august presence in the meeting.

Agenda:

1. Discussion in detail on III & IV Semester B.Sc Syllabus and Interdisciplinary paper
2. Approval of Panel of External Examiners and Board of Examiners.
3. Any other subject.

Thanking you,

Yours sincerely,



P. Sundramma
Chairperson
Board of Studies in Mathematics
The National College,
Autonomous,
Basavanagudi, Bengaluru-4

The National College
Autonomous
Basavanagudi, Bangalore – 560 004
DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on **23.06.2016** at 10.30 am at The National College, Basavanagudi, Bangalore – 560 004.

MEMBERS PRESENT:

1. **Dr. I. S. Shivakumara**, Department of Mathematics, Bangalore University, Central College, Dr. Ambedkar Veedhi, Bangalore-560 001.
2. **Dr. Mahadeva Naika**, Chairman, Department of Mathematics, Bangalore University, Central College, Dr. Ambedkar Veedhi, Bangalore- 560 001.
3. **Sri. B.S. Sudarshan**, Industrialist, Bangalore
4. **Prof. Anantha Rangan**, Department of Mathematics, The National Degree College, Bangalore-560 004.
5. **Prof. Vittal V. Kulkarni**, Department of Mathematics, Vijaya First Grade College, Bangalore.
6. **Smt. Gayathri K. S**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
7. **Sri. K. Keshavan**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
8. **Ms. Shwetha. C**, Assistant Professor in Mathematics, The National College, Bangalore-560 004.
9. **Smt. P. Sundaramma, H. O. D**, Associate Professor in Mathematics, The National College, Bangalore-560 004.


Head of the Department of Mathematics
The National Degree College, Autonomous
Basavanagudi, Bangalore : 04.

The National Degree College

Autonomous
Basavanagudi, Bangalore - 560 004

DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on 23.06.2016 at 10.30 am at
The National Degree College, Basavanagudi, Bangalore - 560 004.

MEMBERS PRESENT:

1. **Dr. I. S. Shivakumara**
Department of Mathematics,
Bangalore University,
Central College, Dr. Ambedkar Veedhi,
Bangalore- 560 001.
2. **Dr. Mahadeva Naika**
Chairman, Department of Mathematics,
Bangalore University,
Central College, Dr. Ambedkar Veedhi,
Bangalore- 560 001.
3. **Dr. Pradeep G. Siddeshwar**
Department of Mathematics,
Bangalore University,
Central College, Dr. Ambedkar Veedhi,
Bangalore- 560 001.
4. **Sri. B.S. Sudarshan**
Industrialist
Bangalore
5. **Prof. Anantha Rangan**
Department of Mathematics,
The National Degree College,
Bangalore-560 004.
6. **Prof. Vittal V. Kulkarni**
Department of Mathematics,
RBANM'S First Grade College, Ulsoor
Bangalore- 560 070.
7. **Smt. Gayathri K. S.**
Assistant Professor in Mathematics,
The National Degree College,
Bangalore-560 004.

SIGNATURE

I. S. Shivakumara
23/06/16

Mahadeva Naika

Pradeep G. Siddeshwar
Anantha Rangan

Vittal V. Kulkarni 23/6/16

Gayathri K. S.
23/6/16

8. **Mr. K. Keshavan**
Assistant Professor in Mathematics,
The National Degree College,
Bangalore-560 004.

K. Keshavan.K.

9. **Ms. Shwetha. C.**
Assistant Professor in Mathematics,
The National Degree College,
Bangalore-560 004.

Shwetha.C.

10. **Smt. P. Sundaramma**
H. O. D, Associate Professor in Mathematics,
The National Degree College,
Bangalore-560 004.

P. Sundaramma

Proceedings:

1. Prof. P. Sundramma, HOD of Mathematics, NCB extended a warm welcome to all the members.
2. The committee discussed the syllabi of III and IV semester B. Sc Mathematics and Interdisciplinary paper.
3. Dr. I. S. Shivakumara suggested to mentioning the year of publications in reference books.
4. Dr. Mahadeva Naika, Dr. Pradeep G. Siddeshwar and Sri. B.S. Sudarshan appreciated the introducing mathematics lab for III and IV Semesters B.Sc, and suggested to reduce the theory class five hours to four hours per week, due to introducing of mathematics lab.
5. The proposed new syllabi of Mathematics subject of B.Sc. course from III and IV Semesters incorporating 'practical' using FOSS (Free and Open Source Software) tools and Inter-Disciplinary Subject for Non-Mathematics Courses B. Com, B.A. and B. Sc (CBZ) was discussed in detail by the honorable members and decided to implement it from the academic year 2016-2017.
6. Finally, the H.O.D. of Mathematics thanked the members of B.O.S.



Head of the Department of Mathematics
The National Degree College, Autonomous
Basavanagudi, Bangalore - 04.

List of Approved BOE Members:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
3.	Dr. N. NAGARATHNA	Maharani's Science College for Women, Bangalore-560 001
4.	Dr. M. C. MAHESH KUMAR	Assistant Professor, Department of Mathematics, Government First Grade College, K. R. Puram Bangalore.
5.	Prof CHANDRA SETTY	Department of Mathematics, The National Degree College, Jayanagar, Bangalore- 560 070
6.	H.G. AMARAPRABHU	Assistant Professor , The National College, Autonomous, Jayanagar.
7.	Prof P. SUNDRAMMA	H. O. D, Associate Professor in Mathematics, The National College, Bangalore-560 004.
8.	Prof. GAYATHRI K. S.	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
9.	Prof. K. KESHAVAN	Assistant Professor in Mathematics, The National College, Bangalore-560 004.
10.	Prof. SHWETHA C	Assistant Professor in Mathematics, The National College, Bangalore-560 004.

List of Approved External Examiners:

SI No	MEMBER NAME	COLLEGE
1.	Prof. VITTAL V KULKARNI	Vijaya College, R. V. Road, Basavanagudi, Bangalore-560 004
2.	Dr. S. BHAGYA	NMKRV College for Women, 3 rd Block, Jayanagar Bangalore
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5.	H.G. AMARAPRABHU	Assistant Professor , The National College, Autonomous, Jayanagar.
6.	NIRMALA ALIAS SANTI	Assistant Professor, Maharani's science college for women
7.	AGAMUM UJWALA	Assistant Professor, Maharani's science college for women.
8.	ASHWINI	Assistant Professor ,Maharani's science college for women.
9.	NIRMALA S	Assistant Professor ,The National College, Autonomous, Jayanagar.
10.	SHWETHA K UDUPA	Assistant Professor ,The National College, Autonomous, Jayanagar.

Year 2015-2016

Meeting Notice

THE NATIONAL DEGREE COLLEGE BASAVANAGUDI, BANGALORE-560 004

[AUTONOMOUS]

DEPARTMENT OF MATHEMATICS

Date: 16-06-2015

To,

Dear Sir/Madam,

Sub: Meeting of the Board of Studies in Mathematics

I thank you sincerely for having been kind enough to accept our invitation to be a member of Board of Studies in Mathematics. With your guidance, we would achieve most of our academic goals. Keeping this in view, I reiterate my request to you to be a member of the BOS and be the guiding spirit in our academic activities during the academic year 2015-16.

I take pleasure informing you that the Board of Studies Meeting in Mathematics is scheduled to be held **on 25th June 2015 at 11:00 A.M.** in the Department of Mathematics, The National College [Autonomous], Basavanagudi, Bangalore-04 to discuss following agenda.

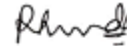
I request you to make it convenient to attend the meeting. We look forward to your august presence in the meeting.

Agenda:

1. Discussion in detail on I & II Semester B.Sc, B.C.A and B. Com Syllabus
2. Approval of Panel of External Examiners and Board of Examiners.
3. Any other subject.

Thanking you,

Yours sincerely,



P. Sundramma
Chairperson
Board of Studies in Mathematics
The National College,
Autonomous,
Basavanagudi, Bengaluru-4

The National Degree College

Autonomous

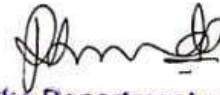
Basavanagudi, Bangalore – 560 004

DEPARTMENT OF MATHEMATICS

Proceedings of the Meeting of B.O.S. in Mathematics held on 25.06.2015 at 11.00 am at The National Degree College, Basavanagudi, Bangalore – 560 004.

MEMBERS PRESENT:

1. **Dr. I. S. Shivakumara**, Department of Mathematics,, Bangalore University, Central College, Dr. Ambedkar Veedhi, Bangalore- 560 001.
2. **Dr. Mahadeva Naika**, Department of Mathematics,, Bangalore University, Central College, Dr. Ambedkar Veedhi, Bangalore- 560 001.
3. **Dr. Pradeep G. Siddeshwar**, Department of Mathematics,, Bangalore University, Central College, Dr. Ambedkar Veedhi, Bangalore- 560 001.
4. **Prof. Vittal V. Kulkarni**, Head of the Department of Mathematics, The National Degree College, Jayanagar, Bangalore- 560 070.
5. **Sri. B.S. Sudarshan**, Industrialist, Bangalore
6. **Prof. Anantha Rangan**, Department of Mathematics, The National Degree College, Bangalore-560 004.
7. **Mr. K. Keshavan**, Assistant Professor in Mathematics, The National College, Bangalore- 560 004.
8. **Ms. Shwetha. C.**, Assistant Professor in Mathematics, The National College, Bangalore- 560 004.
9. **Smt. P. Sundaramma, H. O. D**, Associate Professor in Mathematics, The National College, Bangalore-560 004.



Head of the Department of Mathematics,
The National Degree College, Autonomous
Basavanagudi, Bangalore - 04.

The National Degree College

Autonomous

Basavanagudi, Bangalore – 560 004

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Industrialist
Bangalore
6. **Prof. Anantha Rangan**
Department of Mathematics,
The National Degree College,
Bangalore-560 004.

SIGNATURE

I.S. Shivakumara

Mahadeva Naika

Pradeep G. Siddeshwar

Vittal V. Kulkarni

B.S. Sudarshan

Anantha Rangan

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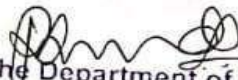
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Bangalore-560 004.

Shwetha
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9. **Smt. P. Sundaramma**
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Proceedings:

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2. The committee discussed the syllabi of I and II semester B. Sc Mathematics and Interdisciplinary paper.
3. Dr. I. S. Shivakumara, Dr. Mahadeva Naika and Dr. Pradeep G. Siddeshwar suggested the title 'Elementary mathematics' to Interdisciplinary paper for non-mathematics courses and also design the syllabus so that it should make way for greater opportunities in employment for the students.
4. The proposed new syllabi of Mathematics subject of B.Sc. course from I and II Semesters incorporating 'practical' using FOSS (Free and Open Source Software) tools and Inter-Disciplinary Subject for Non-Mathematics Courses B. Com, B.A. and B. Sc (CBZ) was discussed in detail by the honorable members and decided to implement it from the academic year 2015-2016.
5. Finally, the H.O.D. of Mathematics thanked the members of B.O.S.


Head of the Department of Mathematics
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