



Shikshan Prasarak Mandal, Anadur's
Jawahar Arts, Science & Commerce College,
Anadur, Tq. Tuljapur, Dist- Osmanabad -413603
INTERNAL QUALITY ASSURANCE CELL

Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. I

Semester: I

Paper No.: MAT-101


Name of the Paper: Differential Calculus

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|-----------|------------------------|---|----------------------------------|---------|
| 1 | June | ---- | Admission Process | ---- | |
| 2 | July | 15 | Prerequisite. Basic concepts-Limits and continuity, Derivatives, | Lectures with given notes | |
| 3 | August | 18 | 1] Differentiations. 2] Successive Differentiation | Lecture with ICT and given notes | |
| 4 | September | 17 | 3] Mean Value Theorem 4] Partial Differentiation. | Lectures with given notes | |
| 5 | October | 10 | 5] Vector Differentiation. Revision and paper solution. | Lectures with given notes | |
| 6 | November | | Semester I Examination | | |


Teacher


SHRI. AGALAVE S. D.
Head, Department of Mathematics
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Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. II


Semester: III


Paper No.: MAT-302


Name of the Paper: Integral Transform

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|-----------|------------------------|---|--|---------|
| 1 | June | --- | Admission Process | --- | |
| 2 | July | 15 | Basic Concepts, Prerequisite 1] Beta and Gamma functions | Lecture with ICT and given notes | |
| 3 | August | 18 | 2] Laplace Transforms 3] Inverse Laplace Transforms | Lectures with given notes | |
| 4 | September | 17 | 4] Application to Differential Equations Problems related to Ordinary Differential Equations | Lectures with given notes | |
| 5 | October | 10 | 5] Fourier Transform | Lectures with given notes | |
| 6 | November | | Semester Exam | | |


Teacher


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Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. III

Semester: V

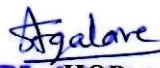
Paper No.: MAT-501

Name of the Paper: Real Analysis-I

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|-----------|------------------------|--|--|---------|
| 1 | June | ---- | Admission Process | ---- | |
| 2 | July | 15 | Basic Concepts, Prerequisite 1] Functions | Lecture with ICT and given notes | |
| 3 | August | 18 | 2] Sequences of Real Numbers | Lecture with ICT and given notes | |
| 4 | September | 17 | 3] Series of Real Numbers | Lectures with given notes | |
| 5 | October | 10 | 4] Fourier Transform Revision and Paper solution. | Lectures with given notes | |
| 6 | November | | Semester Exam | Lectures with given notes | |


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Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. III

Semester: V

Paper No.: MAT-502

Name of the Paper: Abstract Algebra I

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|-----------|------------------------|--|--|---------|
| 1 | June | ---- | Admission Process | ----- | |
| 2 | July | 15 | Basic Concepts, Prerequisite, Set theory 1] Group Theory | Lecture with ICT and given notes | |
| 3 | August | 18 | Subgroup, Normal Subgroup Quotient group | Lectures with given notes | |
| 4 | September | 17 | Homeomorphism, Automorphism | Lectures with given notes | |
| 5 | October | 10 | 2] Ring Theory. | Lectures with given notes | |
| 6 | November | | Semester Exam | | |

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Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. I

Semester: II


Paper No.: MAT-201


Name of the Paper: Integral Calculus

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|----------|------------------------|--|----------------------------|---------|
| 1 | December | 15 | 1] Reduction Formulae 2] Integration of Rational Algebraic Function | Lectures with given notes | |
| 2 | January | 18 | 3] Integration of Trigonometric Function 4] Integration of Limit of Sum 5] Rectification | Lectures with given notes | |
| 3 | February | 17 | 6] Areas of Plane Region 7] Volumes if Revolution | Lectures with given notes | |
| 4 | March | 10 | 8] Integral Transformation . | Lectures with given notes | |
| 5 | April | | Semester Exam | | |


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Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. II

Semester: IV

Paper No.: MAT-401

Name of the Paper: Numerical Methods

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|----------|------------------------|---|----------------------------------|---------|
| 1 | December | 15 | 1] Solution of Algebraic and Transcendental Equations | Lectures with given notes | |
| 2 | January | 18 | 2] Interpolation. | Lecture with ICT and given notes | |
| 3 | February | 17 | 3] Curve Fitting. 4] Solutions of Linear System of Equations | Lectures with given notes | |
| 4 | March | 10 | 5] Numerical Solution of Ordinary Differential Equation. | Lectures with given notes | |
| 5 | April | | Semester VI Examination | | |


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Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. II

Semester: IV


Paper No.: MAT-402


Name of the Paper: Partial Differential Equations

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|----------|------------------------|---|----------------------------------|---------|
| 1 | December | 15 | 1] Partial Differential Equations Of Order one. | Lecture with ICT and given notes | |
| 2 | January | 18 | 2] Non-Linear Partial Differential Equations. | Lecture with ICT and given notes | |
| 3 | February | 17 | 3] Linear Partial Differential Equations. | Lectures with given notes | |
| 4 | March | 10 | 4] Partial Differential Equations of Second Order | Lectures with given notes | |
| 5 | April | | Semester VI Examination | | |


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Teaching Plan 2019-20

Name of the Teacher: Madhuri N. Gadsing

Department - Mathematics

Class: B. Sc. III

Semester: VI

Paper No.: MAT-601


Name of the Paper: Real Analysis-II

Total Periods: 60

| Sr. No. | Month | Total Periods of Month | Name of the Chapter/ Unit | Teaching Method to be Used | Remarks |
|---------|----------|------------------------|--|----------------------------------|---------|
| 1 | December | 15 | 1] Limits in metric spaces 2] Continuous functions on metric spaces | Lecture with ICT and given notes | |
| 2 | January | 18 | 3] Connectedness, completeness and compactness | Lectures with given notes | |
| 3 | February | 17 | 4] Calculus | Lectures with given notes | |
| 4 | March | 10 | 5] Fourier Series Revision | Lectures with given notes | |
| 5 | April | | Semester VI Examination | Lectures with given notes | |


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