

Sir Padampat Singhania Education Centre Kamla Nagar, Kanpur

Lesson Plan Session 2017 - 2018 Class: XII

Subject : Physics Book : NCERT

Subject Coordinator

Name: Mr. Neeraj Chaube

Sign: Sign:

Head of Department

Name: Mr. Neeraj Chaube



Kamla Nagar, Kanpur

Yearly Syllabus/Planning overview

Session: 2017 - 2018

Subject: Physics Class: XII No. of periods: 193

| Month | Assessed in | Lesson/s to be covered | Period Count |
|-------------|------------------|---|-----------------|
| March/April | Test 1 | Electrostatic charges and field Electrostatic potential and capacitance | 24 |
| May | Test 1 Test 2 | Electrostatic potential and capacitance Current electricity | 21 |
| June/July | Test 2 | Moving charges and magnetism Magnetism and matter Electromagnetic Induction | 25 |
| August | | Electromagnetic Induction Alternating Current Electromagnetic Waves | 22 |
| September | Test 3 | Ray Optics and Optical Instruments Wave Optics Dual nature of matter and radiation | 19 |
| October | | Semiconductor Electronics: Material, Devices and Simple Circuits Communication System Atoms | 18 |
| November | | Nuclei Revision Pre-Board Examination 1 | 23 |
| December | | Revision Pre-Board Examination 2 | 22 |
| January | | Revision Board Practical | 19 |
| February | | Board Exam Begins | |
| March | | | |
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Subject coordinator: NCE HOD:NCE



Kamla Nagar, Kanpur Monthly Syllabus/Planningoverview

Session: 2017 - 2018

| 35 41 | Date/Week | | | Period |
|--------|-----------|---------|--|--------|
| Month | From | То | Lesson/s to be covered in classroom | Count |
| April | 3/4/17 | 8/4/17 | Electrostatic charges and field | 06 |
| | 10/4/17 | 15/4/17 | Electrostatic potential and capacitance | 05 |
| | 17/4/17 | 22/4/17 | Electrostatic potential and capacitance | 07 |
| | 24/4/17 | 29/4/17 | Electrostatic potential and capacitance | 07 |
| May | 1/5/17 | 6/5/17 | Electrostatic potential and capacitance Current electricity | 07 |
| | 8/5/17 | 12/5/17 | Current electricity | 06 |
| | 15/5/17 | 20/5/17 | Current electricity | 04 |
| | 22/5/17 | 27/5/17 | Current electricity | 04 |
| June | 28/6/17 | 1/7/17 | Moving charges and magnetism | |
| July | 3/7/17 | 7/7/17 | Moving charges and magnetism | 06 |
| | 10/7/17 | 15/7/17 | Moving charges and magnetism | 06 |
| | 17/7/17 | 22/7/17 | Magnetism and matter | 07 |
| | 24/7/17 | 29/7/17 | Electromagnetic Induction | 06 |
| | 31/7/17 | 5/8/17 | Electromagnetic Induction | 07 |
| August | 7/8/17 | 11/8/17 | Electromagnetic Induction | 05 |
| | 14/8/17 | 19/8/17 | Alternating Current | 04 |
| | 21/8/17 | 26/8/17 | Alternating Current | 07 |

Subject coordinator: NCE HOD: NCE



Kamla Nagar, Kanpur

Monthly Syllabus/Planningoverview

Session: 2017 - 2018

Subject: Physics Class: XI No. of periods:___

| 3/ 41- | Date | /Week | Tanan /n An ha name of the alarmous | Period |
|-----------|----------------------|----------------------|--|----------|
| Month | From | То | Lesson/s to be covered in classroom | Count |
| | 28/8/17 | 2/9/17 | Alternating Current | 06 |
| September | 4/9/17 | 8/9/17 | Ray Optics and Optical Instruments | 05 |
| | 11/9/17 | 16/9/17 | Ray Optics and Optical Instruments | 07 |
| | 18/9/17 25/9/17 | 23/9/17 30/9/17 | Wave Optics | 07 06 |
| October | 2/10/17 | 7/10/17 | Dual nature of matter and radiation | 04 |
| | 9/10/17 16/10/17 | 13/10/17 21/10/17 | Semiconductor Electronics: Material, Devices and Simple Circuits | 06 06 |
| | 23/10/17 | 28/10/17 | Communication System | 07 |
| | 30/10/17 | 3/11/17 | Atoms | 06 |
| November | 6/11/17 | 10/11/17 | Nuclei | 06 |
| | 13/11/17 | 18/11/17 | Revision | 06 |
| | 20/11/17 27/11/17 | 25/11/17 2/12/17 | Revision | 02 05 |
| December | 4/12/17 | 8/12/17 | Revision | 06 |
| | 11/12/17 | 16/12/17 | Revision | 07 |
| | 18/12/17 | 23/12/17 | Revision | 06 |
| | 25/12/17 | 30/12/17 | Revision | 04 |
| January | 10/1/17 15/1/17 | 12/1/17 20/1/17 | Revision | 03 07 |
| | 22/1/17 | 31/1/17 | Revision | 09 |
| February | 2/2/17 | 15/2/17 | 1 | 1 |

February 2/2/17 15/2/17

Subject coordinator: NCE HOD: NCE



Subject

: Physics

Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

Session: 2017-2018 Class: XIIs No. of periods :4+6

| Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) | |
|--|---|--|--|
| WEEK _9_: 28/6/17 to 1/7/17 | Period Co | Period Count: 4 | |
| Magnetic force, concept of magnetic field due to a current element (Biot-Savart Law) | | _ | |
| Applications of Biot-Savart Law Magnetic field due to a current carrying circular loop on the axis of the loop | | | |
| Magnetic field due to a straight current carrying wire. Magnetic field due to a current carrying circular loop at its centre. | | | |
| Ampere's circuital Law with its proving. | Learn the formula | | |
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| WEEK _10_: 3/7/17 to 7/7/17 | Period Co | ount: 06 | |
| Application of Ampere's Circuital Law: Magnetic field due to a solenoid | | | |
| Magnetic field due to a toroid. Magnetic field inside a conductor with graph. | | | |
| Derive formula for the force between two parallel currents. | | | |
| Derive expression for motion of a charge in a magnetic field . | Learn the formula | | |
| practical | | | |
| Practical | | | |
| Derive expression for motion of a charge in a combined electric and magnetic fields (Lorentz Force) | Learn the formula | | |
| | WEEK _9_: 28/6/17 to 1/7/17 Magnetic force, concept of magnetic field due to a current element (Biot-Savart Law) Applications of Biot-Savart Law Magnetic field due to a current carrying circular loop on the axis of the loop Magnetic field due to a straight current carrying wire. Magnetic field due to a current carrying circular loop at its centre. Ampere`s circuital Law with its proving. WEEK _10_: 3/7/17 to 7/7/17 Application of Ampere`s Circuital Law: Magnetic field due to a solenoid Magnetic field due to a solenoid Magnetic field due to a toroid. Magnetic field inside a conductor with graph. Derive formula for the force between two parallel currents. Derive expression for motion of a charge in a magnetic field. Practical | WEEK _9_: 28/6/17 to 1/7/17 Period Co Magnetic force, concept of magnetic field due to a current element (Biot-Savart Law) Applications of Biot-Savart Law Magnetic field due to a current carrying circular loop on the axis of the loop Magnetic field due to a straight current carrying wire. Magnetic field due to a current carrying circular loop at its centre. Ampere's circuital Law with its proving. Learn the formula WEEK _10_: 3/7/17 to 7/7/17 Period Co Application of Ampere's Circuital Law: Magnetic field due to a solenoid Magnetic field due to a solenoid Magnetic field inside a conductor with graph. Derive formula for the force between two parallel currents. Derive expression for motion of a charge in a magnetic field. Practical Practical Derive expression for motion of a charge in a combined | |



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Kamla Nagar, Kanpur

Weekly planning overview Session: 2017-2018

Subject: Physics Class: XII No. of periods : 6+7

| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
|------------------------------|--|------------------|-----------------------------------|
| WEEK 11_: 10/7/17 to 14/7/17 | | Period Count: 06 | |
| PD1 | Derive expression for Torque on current loop. | | |
| PD2 | Define magnetic dipole moment. Define, draw schematic diagram and derive expression for current sensitivity and voltage sensitivity of moving coil Galvanometer | | |
| PD3 | n | | |
| PD4 | Numerical from NCERT | | |
| PD5 | Lab Activity to be done | | |
| PD6 | " | | |
| PD 7 | PTM (VI to XII) | | |
| | WEEK _12_: 17/7/17 to 22/7/17 | Period Count: 07 | |
| PD1 | Know properties of a bar magnet. Define Gauss`s Law in magnetism. | | |
| PD2 | Define earth`s magnetism. | Solved examples | |
| PD3 | Define magnetization and magnetizing intensity. | Solved examples | |
| PD4 | Know magnetic properties of matter. | Solved examples | |
| PD5 | Practical | | |
| PD6 | Practical | | |
| PD 7 | Dia , para and ferro magnetic substances and their properties along with Hysteresys. Numerical examples and exercise from NCERT | | |

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Kamla Nagar, Kanpur

Weekly planning overview

Session: 2017- 2018

Subject Subject: Physics Class: XII No. of periods :7+7

| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) | |
|--------|--|------------------|-----------------------------------|--|
| | WEEK _13_: 24/7/17 to 29/7/17 | Period C | Period Count: 07 | |
| PD1 | Define magnetic flux. Do Analyses of the Faraday's experiments and will be able to write Farada's laws for electromagnetic induction. | Solved examples | | |
| PD2 | Write lenz law of electromagnetic induction and solve numerical on the basis of above mentioned law. | Solved examples | | |
| PD3 | Derive formula for motional emf for a moving conductor and solve numerical on the basis of above mentioned concept. | Solved examples | | |
| PD4 | Define energy required to make a conductor move in a magnetic field. | Solved examples | | |
| PD5 | Practical | | | |
| PD6 | Practical | | | |
| PD 7 | Define self inductance. Define mutual Inductance. | | | |
| | WEEK _14_: 31/7/17 to 5/8/17 | Period Count: 07 | | |
| PD1 | Derive expression for Self induction of long Solenoid. | Solved examples | | |
| PD2 | Derive expression for mutual inductance of two coaxial solenoid. | Solved examples | | |
| PD3 | Define eddy currents. | Solved examples | | |
| PD4 | Draw schematic diagram, derive formula for emf and working of an AC generator. | | | |
| PD5 | Practical | | | |
| PD6 | Practical | | | |
| PD 7 | Solve numerical on the basis of above mentioned topics. | | | |

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Weekly planning overview Session: 2017-2018

Subject: Physics Class: XII No. of periods :5+4

| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) | |
|--------|---|-----------------|-----------------------------------|--|
| | WEEK _15_: 7/8/17 to 12/8/17 | Period Cou | Period Count: _05 | |
| PD1 | Rakshabandhan holiday | | | |
| PD2 | Define Alternating Current, Derive RMS value of ac and alternating emf. | Solved examples | | |
| PD3 | Draw and define Phasor diagrams and Phasors respectively. | Solved examples | | |
| PD4 | Derive equation of current, opposition to current, draw phasor diagrams and wave diagrams in different ac circuits. Which are as follows: AC circuit with resistance only. | | | |
| PD5 | Practical | | | |
| PD6 | Practical | | | |
| PD 7 | AC circuit with capacitor only, AC circuit with inductor only . | | | |
| | WEEK _16_: 14/8/17 to 19/8/17 | Period C | Count: 04 | |
| PD1 | Janmashtami Holiday | | | |
| PD2 | Independence Day | | | |
| PD3 | Series LCR circuit. | | | |
| PD4 | Define resonance in Series LCR circuit. | Solved Examples | | |
| PD5 | | | | |
| PD6 | Lab activity to be done | | | |
| PD 7 | PTM | | | |

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Weekly planning overview Session: 2017-2018

Subject : Physics Class: XII No. of periods :7+6

| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
|--------|---|------------------|-----------------------------------|
| | WEEK _17_: 21/8/17 to 26/8/17 | | Count: 07 |
| PD1 | Explain Series LCR circuit as tuner or acceptor. | | |
| PD2 | Quality factor or Q-factor of resonance. | Solved Examples | |
| PD3 | Derive expression for power in an AC circuit. | Solved Examples | |
| PD4 | Draw schematic diagram, write principle and do calculation for a transformer. | Solved Examples | |
| PD5 | Practical | | |
| PD6 | Practical | | |
| PD 7 | Define use of a transformer and losses in transformer.+ | | |
| | WEEK _18_: 28/8/17 to 1/9/17 | Period Count: 05 | |
| PD1 | Introduce electromagnetic waves. | Solved Examples | |
| PD2 | Write and define Maxwell's equations. | Solved Examples | |
| PD3 | Define source of EM wave and explain Hertz experiment. | Solved Examples | |
| PD4 | Define transverse nature of EM waves. Define energy density, intensity and momentum of EM wave. Define properties of EM waves and effect of Earth's atmosphere on EM wave. | Solved Examples | |
| PD5 | Practical | | |
| PD6 | | | |
| PD 7 | Id-Ul-Juha Holiday | | |



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Weekly planning overview Session: 2017- 2018

Subject: Physics Class: XII No. of periods: 5+7

| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) | |
|--------|--|------------------|-----------------------------------|--|
| | WEEK _19_: 4/9/17 to 8/9/17 | Period Count: 05 | | |
| PD1 | Learn table for EM spectrum. Solve numerical from NCERT text book. | Solved Examples | | |
| PD2 | Teacher`s Day | | | |
| PD3 | Introduction of Ray optics. | Solved Examples | | |
| PD4 | Reflection through spherical mirrors. | Solved Examples | | |
| PD5 | Practical | | | |
| PD6 | Practical | | | |
| PD 7 | Second Saturday | | | |
| | WEEK _20_: 11/9/17 to 16/9/17 | Period Count: 07 | | |
| PD1 | Introduction of Refraction and refraction through lenses. | | | |
| PD2 | Total Internal Reflection, Refraction at Spherical Surfaces | Solved Examples | | |
| PD3 | Refraction through a Prism. | Solved Examples | | |
| PD4 | Dispersion by a Prism. | Learn formula | | |
| PD5 | Practical | | | |
| PD6 | Practical | | | |
| PD 7 | Some Natural Phenomena due to Sunlight. | | | |

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Weekly planning overview Session: 2017-2018

Subject : Physics Class: XII No. of periods :7

| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
|--------|---|----------|-----------------------------------|
| | WEEK _21_: 19/9/17 to 25/9/17 Period Count: 7 | | Count: 7 |
| PD1 | | | |
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| PD4 | HALF YEARLY EXAMINATION | | |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) | |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Kamla Nagar, Kanpur

Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Sir Padampat Singhania Education Centre

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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
| | WEEK: to | Period | Count: |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
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| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
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Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
|---------|------------------------------------|------------------|-----------------------------------|
| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
| | WEEK: to | Period | Count: |
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Supervisor



Kamla Nagar, Kanpur

Weekly planning overview

Session: 20 - 20 Class:

| Subject | : Class : | No. of periods : | |
|---------|------------------------------------|------------------|-----------------------------------|
| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
| | WEEK: to | Period | Count: |
| PD1 | | | |
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Subject coordinator

Supervisor



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

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Supervisor



Kamla Nagar, Kanpur

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Subject coordinator

Supervisor



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

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Supervisor



Kamla Nagar, Kanpur

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Subject coordinator

Supervisor



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

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Supervisor



Kamla Nagar, Kanpur

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Subject coordinator

Supervisor



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

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Supervisor



Kamla Nagar, Kanpur

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Subject coordinator

Supervisor



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

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Supervisor



Kamla Nagar, Kanpur

Weekly planning overview

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Subject coordinator

Supervisor



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

Session: 20 - 20 Class:

| Subject | : | | riods : |
|---------|------------------------------------|----------|-----------------------------------|
| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
| | WEEK: to Period Count: | | Count: |
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Supervisor



Kamla Nagar, Kanpur

Weekly planning overview

Session: 20 - 20 Class:

| Subject | : | | riods : |
|---------|------------------------------------|----------|-----------------------------------|
| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
| | WEEK: to Period Count: | | Count: |
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Subject coordinator

Supervisor



Sir Padampat Singhania Education Centre

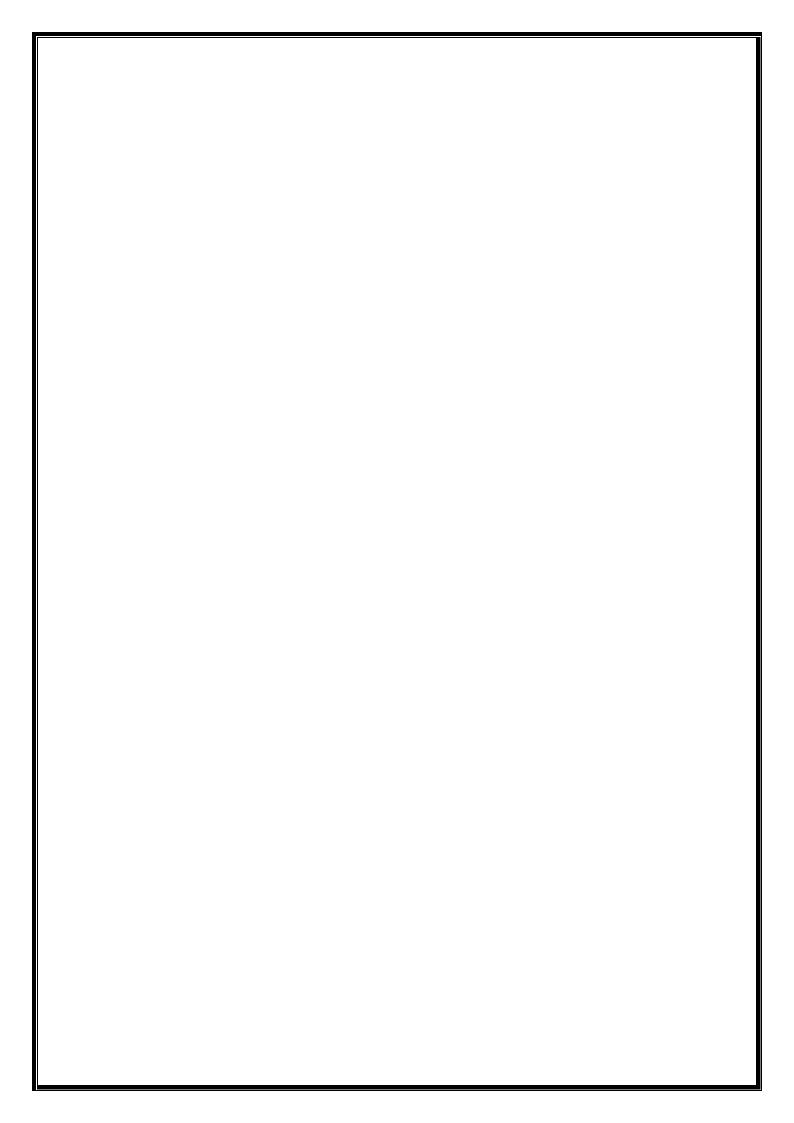
Kamla Nagar, Kanpur

Weekly planning overview

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| Subject | : | | riods : |
|---------|------------------------------------|----------|-----------------------------------|
| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
| | WEEK: to Period Count: | | Count: |
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Supervisor





Subject

Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

Session: 20 - 20
Class: ___ No. of periods : ___

| Period | Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
|---------------------------|------------------------------------|-----------------|-----------------------------------|
| WEEK _: 7/8/17 to 12/8/17 | | Period Cou | ınt: |
| PD1 | | | |
| PD2 | Exercise 7.4 Q.1 | Solved examples | |
| LAB | Exercise 7.4 Q.2 and 3 | Solved examples | |
| WEEK: to Period Count: | | | eriod Count: |
| PD1 | | | |
| PD2 | | | |
| LAB | | | |
| WEE | WEEK: to Period Count: | | |
| PD1 | | | |
| PD2 | | | |
| LAB | | | |
| WEEK: to Period Count: | | | eriod Count: |
| PD1 | | | |
| PD2 | | | |
| LAB | | | |

Subject coordinator

Supervisor



Subject

Subject coordinator

Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Weekly planning overview

Session: 20 - 20 Class : ___ No. of periods : ___

| Topic/s to be covered in classroom | Homework | Status (Yes/No) (Reason if No) |
|------------------------------------|---------------|-----------------------------------|
| K_:to | Period Count: | |
| | | |
| | | |
| | | |
| C_:to | Period Count: | |
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| K:to | Period Count: | |
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| WEEK: to Period Count: | | |
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| | | |
| | | |
| | C_: | K_: to F |

Supervisor

| Sir Padampat Singhania Education Centre, | Kamla Nagar, Kanpur |
|---|----------------------------------|
| Book : Publication : Lesson : | Class: Session: 20 - 20 Subject: |
| <u>Lesson Plan</u> | |
| Ques 1. Ans. | |
| (Ref.: Page 18) | |
| Ques 2. Ans. | |
| (Ref.: Page 18) | |
| Ques 3. Ans. | |
| (Ref.: Page 18) | |
| | |
| | |
| Note: This lesson contains one worksheets. | |
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Kamla Nagar, Kanpur

Lesson plan implementation report

Session: 20 - 20

| Term | : | Assessment | : |
|-----------|---|----------------|---|
| From Date | : | To Date | : |
| Subject | : | Class | : |
| Book | : | No. of periods | : |

| ject Le cher | to lesson plan | Yes/No | completed |
|-----------------|----------------|--------|-----------|
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Subject coordinator:

HOD: