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MODERN PHYSICS



COURSE HOME



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COURSE DETAILS



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TEACHING METHODOLOGY



LECTURE SCHEDULE AND REFERENCES



COURSE EVALUATION



Topic 1

Electrons



Nucleus and atoms



Topic 2

Brief review of Atomic models



Problems for unit 1 and 2



Topic 3

Measurement of Mass



Topic 4

Crystal Structure



Turn editing off

Search forums



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Latest news



Add a new topic...

(No news has been posted yet)

Upcoming events



There are no upcoming events

Go to calendar...

New event...

Recent activity

Activity since Sunday, 1 May
2016, 3:12 PM

Full report of recent activity...

Nothing new since your last login

Add a block

Add...

5/2/2016 12:42 PM



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Introduction to Mathematical Physics

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COURSE SYLLABUS

COURSE DETAILS

COURSE DETAILS

COURSE OBJECTIVES AND LEARNING OUTCOMES

TEACHING METHODOLOGY

Continuous Assessment I

Continuous Assessment II (Problems)

Continuous Assessment III (Assignment)

LECTURE SCHEDULE AND REFERENCES

COURSE EVALUATION METHODOLOGY

COURSE EVALUATION

CLASS POLICIES

CLASS POLICIES

Topic 1

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Latest news

Add a new topic...

(No news has been posted yet)

Upcoming events

There are no upcoming events

Go to calendar...

New event...

Recent activity

Activity since Sunday, 1 May 2016, 3:13 PM

Full report of recent activity...

Nothing new since your last login

Add a block

Add...



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ATOMIC AND MOLECULAR PHYSICS

COURSE HOME

HOME PAGE

Course description and faculty details.

COURSE DETAILS

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- Lecture Schedule and References

Topic 1

Hydrogen Atom

Application of the Schrödinger Equation to the Hydrogen Atom.
 Solution of the Schrödinger Equation for Hydrogen, Quantum
 Numbers and Spin, Energy Levels and Electron Probabilities

Topic 2

Many Electron atoms

Pauli's Exclusion, Principle Periodic Table, Symmetric and
 Antisymmetric wavefunctions, Total Angular Momentum, Spin Orbit
 Coupling, Many Electron Atoms, LS coupling and jj Coupling

Topic 3

Atoms in a Magnetic field

Stern Gerlach Experiment, Normal Zeeman Effect, Anomalous
 Zeeman Effect

Topic 4

Topic 5

Topic 6

Turn editing on

Search forums

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Advanced search?

Latest news

Add a new topic...

(No news has been posted yet)

Upcoming events

There are no upcoming events

Go to calendar...

New event...

Recent activity

 Activity since Saturday, 30 April
 2016, 4:56 AM

Full report of recent activity...

Nothing new since your last login