J.R. Wedagedera

Why ... Things our students did under FSC32P2 ... Things our students did under ESC32P2

Things our students did under FSC32P2

Questions ???

(Examination) ...

Undergraduate Research Projects at :::::Ruhuna Science:::::: An Introduction

J.R. Wedagedera

Faculty of Science, University of Ruhuna, Matara, Sri Lanka.

2 July 2008



Why ...

Things our students did under FSC32P2

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Things our students did under FSC32P2

Questions ??? Assesment (Examination)



Industrial Training and Research Committee

ITRC

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Faculty of Science, University of Ruhuna

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Why ...

I hings our students did under FSC32P? ... Things our students did under FSC32P? ...

Things our students did under FSC32P2

Questions ???

Assesment (Examination) ..

• There are very clever and creative ones among us!

Why ...

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Questions ??? Assesment

• There are very clever and creative ones among us!

• Traditional examination based taught courses verses independent research (under supervision).

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- Traditional examination based taught courses verses independent research (under supervision).
- Responding the needs of the country and the graduates.

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• There are very clever and creative ones among us!

- Traditional examination based taught courses verses independent research (under supervision).
- Responding the needs of the country and the graduates.
- What is Industrial Training and Industrial Research ?

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- There are very clever and creative ones among us!
- Traditional examination based taught courses verses independent research (under supervision).
- Responding the needs of the country and the graduates.
- What is Industrial Training and Industrial Research ?
- Hence the introduction of undergrduate research projects a new course unit for B.Sc General Degree Programme: FSC32P2.

Why ...

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Questions ???

Assesment (Examination) ...

Things our students did under FSC32P2 ...

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• Study of the avifauna in the Kiralakele forest reserve.

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Questions ??? Assesment (Examination)

Things our students did under FSC32P2 ...

- Study of the avifauna in the Kiralakele forest reserve.
- Construction of an electronically controlled automated water pumping controlling system.

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- Analysis and modeling of failure of machinery at Loadstar Tyre Factory, Midigama.
- Adequacy of testing on cement manufacturing at Holcim (Lanka) Pvt. Ltd, Galle.
- A Microprocessor Controlled Door Security System

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Things our students did under FSC32P2 ... Questions ???

Assesment (Examination) ..

Things our students did under FSC32P2 ...

• Programmable Power ON/OFF Timer Switch::: The switch is controlled by a microcontroller stored in an EEPROM.

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Questions ??? Assesment (Examination) .

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- Programmable Power ON/OFF Timer Switch::: The switch is controlled by a microcontroller stored in an EEPROM.
- Construction of a Security Access to USB disks.::: The guard system consists of -(i) USB device identification unit, (ii) Centrl Control Unit and (iii) USB connecting switch.

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Things our students did under FSC32P2

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Questions ??? Assesment (Examination)

Things our students did under FSC32P2 ...

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• Survey about facilities available for students in the University of Ruhuna and facts affecting students results in the Faculty of Science.

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- Survey about facilities available for students in the University of Ruhuna and facts affecting students results in the Faculty of Science.
- Enterprise Resource Planning (ERP) System for Tea Industry in Sri Lanka (based on php and mysql).

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- A New Algorithm to Compute the Modulo Exponentiation (i.e. to compute $a^n \mod m$ when *n* is large.)

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- Have people being aware of AIDS ? An investigation of the level of awareness of the disease AIDS within the community of Matara District.

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Questions ???

Assesment (Examination) ...

HOWTO ...







Questions ???

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 $\bullet\,$ find a problem ?

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Why ...

- Things our students did under FSC32P2 ...
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Questions ???

Assesment (Examination) ...

HOWTO ...

• find a problem ?

• find a supervisor ?







Questions ???

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Why ... Things ou

- students did under FSC32P2
- Things our students did under FSC32P2
- Things our students did under FSC32P:
- Questions ???

Assesment (Examination) ...

HOWTO ...







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- find a problem ?
- find a supervisor ?
- carry-out the project ?

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Why ... Things ou

students did under FSC32P2

Things our students did under FSC32P2

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Questions ???

Assesment (Examination) ...

HOWTO ...







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- find a problem ?
- find a supervisor ?
- carry-out the project ?
 - Place (laboratory facilities), filed work, ...

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Why ...

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Things our students did under FSC32P:

Questions ???

Assesment (Examination) ...

HOWTO ...







- find a problem ?
- find a supervisor ?
- carry-out the project ?
 - Place (laboratory facilities), filed work, ...
 - Duration

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Things our students did under FSC32P:

Questions ???

Assesment (Examination) ...

HOWTO ...







- find a problem ?
- find a supervisor ?
- carry-out the project ?
 - Place (laboratory facilities), filed work, ...
 - Duration
 - Funds

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Questions ???

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HOWTO ...







- find a problem ?
- find a supervisor ?
- carry-out the project ?
 - Place (laboratory facilities), filed work, ...
 - Duration
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Questions ???

Assesment (Examination) ...

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• No written examination.

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Things our students did under FSC32P:

Questions ???

Assesment (Examination) ...

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- No written examination.
- Assessment by Project Report (70-80/Presentation (30-80%)



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• Past results ... (nearly 80% obtained A or better!).