

Majors

Research

Facilities

New



Overview

- A relatively small Department but a lot to offer!
- Academically challenging environment
- Scope for personal interaction with lecturers and subject area.
- Practical, hands on and fun!
- A different experience
 - You haven't done physics until you've done physics at Mona!

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Earth

_w 5 Majors

General Physics

- Theoretical physics
- Education, Higher Research, any career that requires problem solving



- Telecommunications, control systems, engineering type solutions
- Popular electronics/computer science double major

Materials Science

- Physics of materials
- Industry, Forensics, Standards



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5 Majors



- Energy & Environmental Physics
 - Renewable technology, solar, wind, hydro, integrating energy systems
 - Physics of climate, atmosphere, climate change, fluids, etc.
 - Met Services, Environmental agencies, etc.

Medical Physics

 Physics in Medicine, Medical Instrumentation



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Research

Research groups.

Consist of academic staff, graduate students, bright undergraduate students (through final year project)



□Climate change and variability, computer modelling

□ Alternative Energy Research Group

□Efficiency of technologies for local context, new technologies, hybrids

□ Automatic Speech Recognition

□ Developing a pronunciation aid for applications like speech therapy

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Facilities

- Undergraduate Laboratories
- Virtual Lab
 - Simulation physics and teaching
- Wind turbine solar panels: Hybrid system powers an undergraduate lab

Weather station

Telescope

Dedicated space for Extra curricular activities

- Electronics club
 - Ham Radio Club

Beautiful sign

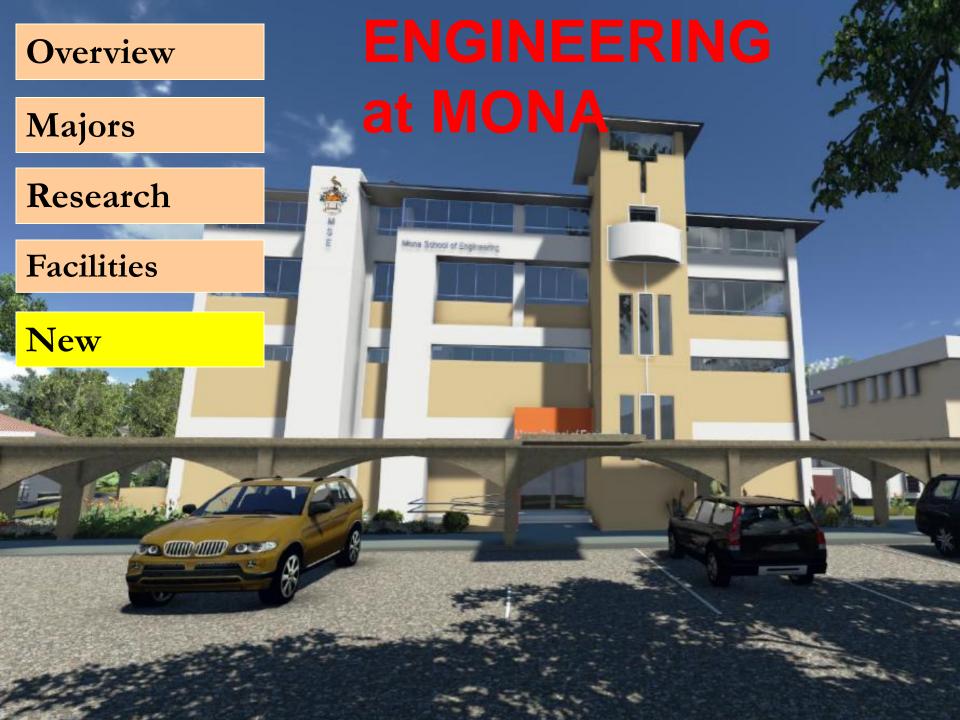


New Courses



	ENTRY	Semes		Semester 2 Course code				
	CSEC Physics	PHYS0411 PHYS0412	Intro to Mechanics Into to Oscillations & Heat	PHYS0421 PHYS0422	Intro to Electricity & Magnetism Intro to Nuclear Physics & Optics			
* ·	CAPE Physics or CSEC Physics + CAPE Math	PHYS1411 PHYS1412	Mechanics Waves, Optics & Thermodynamics	PHYS1421 PHYS1422 ELET 1400 ELET1405	Electricity & Magnetism Modern Physics Intro to Electronics Practices in Basic Electronics (for all majors except Mat Sci)			
ري <u>ره —</u>	CAPE Math	MATH1185 MATH1141	Mathematics for Scientists & Engineers Intro to Linear Algebra Needed to adva to Level 3 Phy		CAPE Math CAPE Math CAPE Math capeded to needed to needed to needed to needed to needed to needed to physics physics			

GND



Programmes

Now Available:

Electronics Engineering

Expected for 2013-14

Civil Engineering

Electrical Power Engineering

Future programmes

Aeronautical Engineering

Others (base on demand)



Entry Requirements

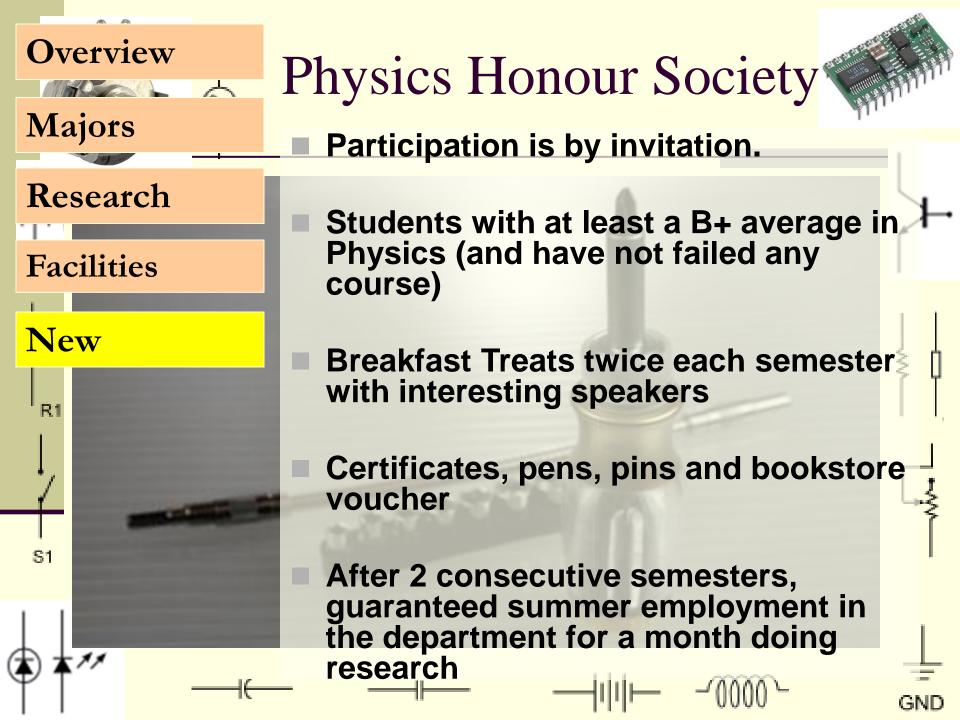
3 year programme

- Maticulation into Level 1
 - CAPE Math & Physics with Minimum of Grade 3, or
 - A'Level Maths and Physics minimum of C, or
 - Associate Degree in relevant engineering programme, min GPA = 2.5

4 year programme

- Entrance into Preliminary year
 - Did Math and Physics at CAPE or A'Level but did not get the required grades
 - Did associate degree but GPA < 2.5</p>
 - At least 2 years working experience and relevant CSECs





Electronics Club/Electronics Engineering

- Participated in the IEEE SoutheastCon 2012 Hardware Competition
- Placed 17th among 48 universities

EEE SoutheastCon 2012 Hardware Competition Sum	☐ ▼ ☐ ▼ Page ▼ Safety ▼ Tools ▼ ☐ ♥							
	<u>Finals</u>							
School Name	Team Name	Qualified	Run 1	Run 2	Run 3	Average	e Final	
FAMU-FSU College of Engineering	i-GAR	Yes	560	560	550	556	550	
University of Alabama at Birmingham	University of Alabama at Birmingham	Yes	330	150	270	250	480	
University of South Alabama	57494E4E494E47	Yes	300	270	250	273	420	
Auburn University	Auburn SPaRC	Yes	150	350	320	273	380	
University of West Florida	Argonauts	Yes	260	230	210	233	380	
University of Alabama	University of Alabama	Yes	280	340	350	323	360	
Mississippi State University	Mississippi State University	Yes	300	310	340	316	320	
DeVry University - Orlando	Overunity	Yes	340	120	240	233	200	
Western Carolina University	Western Carolina University	Yes	120	210	210	180		
Murray State University	Racers	Yes	110	280	130	173		
University of North Carolina at Charlotte	UNC Charlotte Hardware Team 1	Yes	150	80	220	150		
University of Tennessee	VolTs	Yes	150	200	90	146		
Pellissippi State Community College	Prowling Panthers	Yes	120	160	130	136		
UNC-Asheville	Team America	Yes	120	150	130	133		
Virginia Military Institute	Virginia Military Institute	Yes	90	120	180	130		
University of Florida	Flaming Grape	Yes	120	100	170	130		
University of the West Indies Mona	University of the West Indies Mona	Yes	90	170	90	116		
Florida Institute of Technology	FIT-IEEE	Yes	120	100	120	113		
Western Kentucky University	Western Kentucky University	Yes	100	110	130	113		
University of Tennessee at Martin	Skyhawks	Yes	110	110	120	113		
University of North Florida	The A Team	Yes	120	100	120	113		
University of Louisville	University of Louisville	Yes	110	110	120	113		
University of Alabama in Huntsville	Charger IEEE	Yes	120	110	110	113		
University of South Florida	USF-Robotics Team	Yes	100	110	120	110		
University of Memphis	Tiger Robotics	Yes	110	100	120	110		
Georgia Southern University	Eagle Robotics	Yes	100	120	110	110		
Christian Brothers University	CBU Robotics	Yes	110	110	100	106		
North Carolina A&T State University: School of Technology	AggieBot	Yes	100	110	110	106		

To The Aspiring Medical Physicists

- M.Sc./Postgraduate Diploma in Medical Physics launched.
- Jobs in radiotherapy, diagnostic imaging and nuclear medicine, teaching, consultancies

