



University of
Salford
MANCHESTER

BSc Physics

Level 6 Induction Session

15th September 2023

Modules

TRIMESTER 1	Nuclear and Particle Ian Morrison John Proctor	Physics Laboratory 3 Ian Morrison (Experimental) James Christian (Computational)	Project in Physics Individual Project Supervisors Heather Yates (Module Leader)
TRIMESTER 2	Condensed Matter Dan Bull Tiehan Shen	Astro & Planetary Physics Ian Morrison John Proctor	
		Photonics & Nanotech James Christian, Heather Yates, Mark Hughes	

T1 Timetable

	9	10	11	12	13	14	15	16	17
Mon		Physics Lab 3: Experimental SEE Building SB3.07				Physics Lab 3 : Experimental SEE Building SB3.07			
		Physics Lab3: Computing Peel LG15				Physics Lab 3: Computing Peel LG15			
Tue					Nuclear and Particle SEE Building SB2.01				
Wed	Nuclear and Particle SEE Building SB2.01								
Thu									
Fri									

Assessment Deadlines

TRIMESTER 1 ASSIGNMENT DEADLINES

Physics Laboratory 3 (Report)	30%	Friday 1 st December
Physics Laboratory 3 (Laboratory Journal)	70%	Friday 8 th December
Nuclear and Particle Physics (Exam)	70%	Monday 11 th December [PROVISIONAL]
Project in Physics (Progress Reporting)	20%	Tuesday 12 th December
Nuclear and Particle Physics (Assignment)	30%	Friday 15 th December

TRIMESTER 2 ASSIGNMENT DEADLINES

Condensed Matter Physics (Assignment)	30%	Friday 22 nd March
Option Module (Assignment)	50%	Monday 15 th April
Project in Physics (Journal)	30%	Friday 19 th April
Project in Physics (Dissertation)	50%	Friday 19 th April
Condensed Matter Physics (Exam)	70%	Monday 29 th April [PROVISIONAL]
Option Module (Exam)	50%	Wednesday 1 st May [PROVISIONAL]

Project

Dr Heather Yates

office SB 3.22

CVD Lab 3.03

H.M.Yates@Salford.ac.uk

Project in Physics

40 credits

- 20% Progress reporting (including workplan)
- 30% Supervisor mark (informed by Journal)
- 50% Dissertation (written and oral)

Assessment Grading

Degree Class	Percentage mark	Level of performance
	90-100	outstanding
	80-89	excellent
1st	70-79	very good
2.1	60-69	good
2.2	50-59	fair
3	40-49	adequate
fail	30-39	unsatisfactory
	20-29	poor
	10-19	very poor
	0-9	extremely poor


Full details of marking schemes available on Blackboard.


General Information

- All presentations and related information on Blackboard under:
Project in Physics >
- Module information > Project guide.pdf, Assessment briefs
- Reminders and scheduling details sent via University email address and Blackboard.
- Contact me if you have any queries or problems relating to this module organisation.

Blackboard set up

Content

 Module Information

 Assessment

For submission of progress report and final dissertation.

 Project Journal

This is a personal space for you to log your project progress. You can directly write here, add attachments (eg spreadsheets, MS word or pdf documents), graphs, pictures or any other information related to your project. This can be used to share documents and data with...

[Show more](#)

Week 1

This contains my project talk, Project Specification form/submission site and related information.

Week 2 - Risk Assessment and Ethical Approval

This contains risk assessment form, additional guidance and submission site (Risk Assessment). Ethical Approval is obtained via the online app.

Week 3 - Library Workshop

This mandatory workshop is on searching the scientific literature and referencing. Blackboard Collaborate - Thursday 6th October, 14:00 - 15:30.

Week 3 and 4 - Project Planning

During the month of October you will be expected to write a full set of detailed aims and objectives for the project. You should also start to research the scientific literature to help you understand the background to your project and help in its design. Note the details in your...


[Show more](#)


Week 12 and 13 - Progress Report


Details in Project Guide. Deadline Monday 5th December 16:00. Submission via Assessment > Assessment 1 - Progress Report.

Mark Criteria


Details of marking schemes.

 Module Information


 Welcome to the Module


 About the Module


 Project-Guide 2022-23 - Final year BSc.pdf

 Student Project areas 2022-23 V1.docx

A list of research areas and possible project ideas.

 Assessment Brief Project in Physics - Dissertation 2022-23.pdf

 Assessment Brief Project in Physics - Journal 2022-23.pdf

 Assessment Brief Project in Physics - Progress Report 2022-23.pdf

Choosing a project

What area of Physics are you interested in?

Think about what you want to do after Salford.

If you cannot come up with your own idea:

Look at the list of projects offered by staff.

BB module site > module contents > Student Project areas.pdf

Or <http://salfordphysics.com/index.php>

<https://hub.salford.ac.uk/sirc-materials-and-physics/>

(Short video with staff research interests)

Ask others for ideas

Check that the member of staff you wish to work with can accommodate you.

Getting Started

1) Project Specification form – To confirm topic and supervisors

PROJECT SPECIFICATION	
1. Name of Student:	
2. Name of Supervisor:	
3. Name of Second Supervisor:	
4. Title of proposed project	
5. Project Aim	
3. Project Objectives	
Student signature	
Supervisor signature	
Date:	

Submission Deadline

Friday 22nd September 16:00

BB Contents > Week 1

Form and submission site

2) Complete 'Risk Assessment'

3) Complete 'Ethical Approval'

Supervisor approval needed before submission.

Submission Deadline Friday 29th September 16:00

A project cannot start until these 2 forms have been submitted.

All forms and detailed guides available on the BB Module site

Risk Assessment

Identifies hazards and quantify the level of risk they pose.



control measures required

Document consists of a series of forms –

- Initial Project Risk Assessment
- Physical / mechanical / electrical / animal
- COSHH Chemical Risk Assessment
- COSHH Biological Risk Assessment
- DSEAR Risk Assessment
- GMO Risk Assessment
- Radiation / Lasers
- Fieldwork / lone working
- Travel

ONLY fill in relevant forms – in most cases just the Initial Project RA

Risk Assessment

- a) Complete the cover sheet,
- b) Initial Risk Assessment - help you decide which extra assessment pages you may need.

Should this assessment return 'Adequate' risk ratings for the proposed work and your supervisor is in agreement then no further action is required.

Acceptable = No further action, but ensure controls are maintained

e.g. If your project consists only of software development, computing, or theory, then you must make this clear on the initial risk assessment document by writing for example SOFTWARE ONLY.

Other project students must complete all the remaining relevant sections.

How to determine the risk rating

<i>Very likely</i>	Adequate	Tolerable	Tolerable	Unacceptable	Unacceptable
<i>Likely</i>	Acceptable	Adequate	Tolerable	Tolerable	Unacceptable
<i>Fairly likely</i>	Acceptable	Adequate	Adequate	Tolerable	Tolerable
<i>Unlikely</i>	Acceptable	Acceptable	Adequate	Adequate	Tolerable
<i>Very unlikely</i>	Acceptable	Acceptable	Acceptable	Acceptable	Adequate
Risk rating	<i>Insignificant</i>	<i>Minor</i>	<i>Moderate</i>	<i>Major</i>	<i>Catastrophic</i>

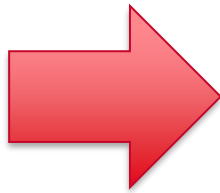
Consequences	Likelihood
Insignificant – no injury	Very unlikely – 1 in a million chance of it happening
Minor – minor injuries	Unlikely – 1 in 100,000 chance of it happening
Moderate – up to three days absence	Fairly likely – 1 in 10,000 chance of it happening
Major – more than three days absence	Likely – 1 in 1,000 chance of it happening
Catastrophic – death or disabling	Very likely – 1 in 100 chance of it happening

See 'Risk Assessment Handbook Research and Projects V3' if you want very detailed information.

Ethical Approval

University (SSEE) regulations insist on all UG projects completing the Ethical Approval App.

Formally confirms a review has taken place of ethical aspects of the project.



Ethical clearance

Most physics projects do not involve –

human participants, human tissue/fluids/DNA, animals, potentially hazardous material

So the answers to the questions will be ‘no’.

See Project Guide – Appendix I for web-link
‘Ethics App ‘How to’.pdf for more detailed information

Project planning

Complete full project plan, including timescales, full set objectives and background work

Discuss this with your supervisor.

Submission to Journal - Deadline Friday 13th October 16:00

Background Literature

Library Workshop – Literature searching and referencing

Thursday 5th October, 14:00-15:30 via BB Collaborate 'Project in Physics' site*

THIS IS MANDATORY

A room will be provided for students in Salford to access the online workshop.

Timetable

Joule Physics Laboratory

L6

Project Guide 2023/24

IMPORTANT PROJECT DATES

w/c 18th September 2023 (week 1)

Confirm project details and supervisor.

Start completing the following documents:

Project specification form (available on Blackboard)

Risk assessment form (available on Blackboard)

Ethics App (available on-line)

Project plan

Friday 22nd September 16:00 Deadline for **submission of project specification form**
(to confirm project and supervisor)

w/c 25th September (week 2)

Meeting with supervisor to check the following:

Ethics Application submitted.

Risk assessment form to be completed and **submitted via blackboard**.

Project plan to be discussed.

Friday 29th September 16:00 Deadline for **submission of Ethics and Risk Assessment**.

w/c 9th October 2023 (week 4)

Formal meeting with supervisor

Full project plan, including timescales, full set of aims and objectives, synopsis of background work done to date to be **submitted to supervisor via Project Journal**.

Friday 13th October 16:00 Deadline for **submission of plans into Journal**.

Friday 8th December 2023 (week 12) 16:00

Deadline for **submission of progress presentation slides and Trimester 2 action plan** via Blackboard.

w/c 11th December 2023 (week 13)

Oral Presentation of progress and interview - marks allocated.

(Students will be expected to demonstrate progress made). Project journals must be up to date.

Friday 8th March 2024 (week 25) 16:00

Project abstract to be **submitted via Blackboard** (for external examiners' visit).

w/c 18th March 2024 (week 27)

Formal meeting with supervisor to discuss draft copy of project report.

Visit of external examiners (Schedule provided once date agreed)

Friday 19th April 16:00 (week 31) – Deadline for **submission of project report** via Blackboard.

Submission of completed Journal for marking.

Late April/Early May 2024 (exact date to be determined when examination timetable is known)

Oral presentation & interview

Project timetable for important dates
(BB – project guide)

Late submission of reports will incur
a penalty – University regulation

Mark Allocation

Project in Physics		Supervisor	Reader	Panel	Overall
Progress Report	Progress Reporting			/100	
	TOTAL %	Progress report 20%			/20%
Supervisor mark	Journal record (written)	/20			
(informed by entries in Journal)	Initiative	/20			
	Effort	/20			
	Progress made relative to apparent difficulty	/40			
	TOTAL %	Supervisor marks - 30%			/30%
Dissertation	Written report	/30	/30		
	Oral defence	Dissertation – Project Report and Interview. 50%			
	TOTAL %				/50%

The Project

Planning your work

Time: average 8 hours/week

- Set yourself a timetable to work on your project

Place:

- Arrange with supervisor where you will be working (research lab, teaching/electronic lab

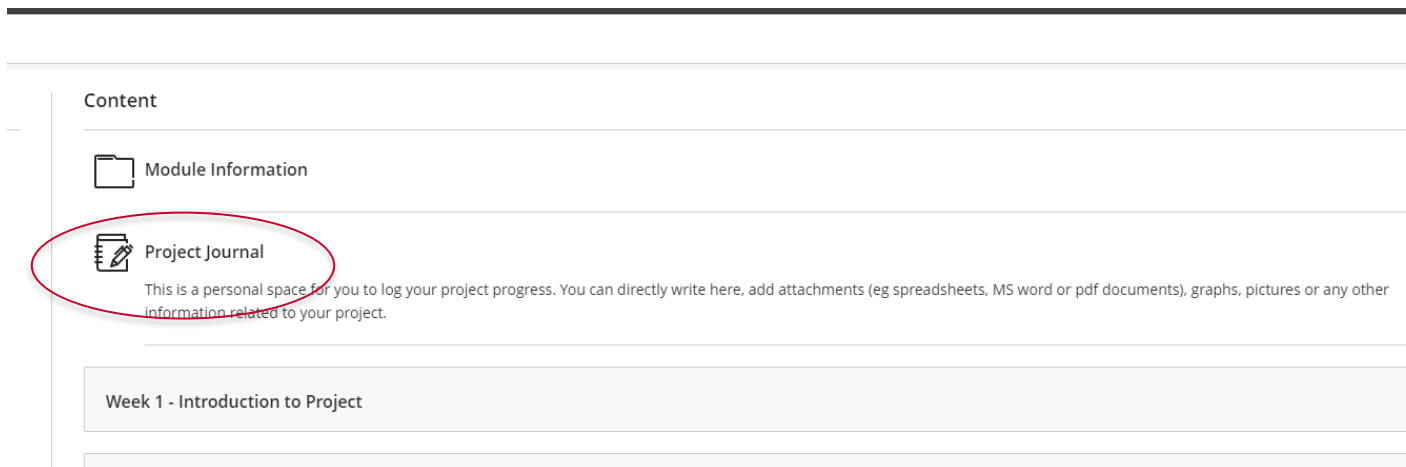
Start:

- project journal for complete record of project

Resources

- Equipment for projects is available on request – email Stuart or Bruce if you require a piece of equipment.
- DO NOT TAKE EQUIPMENT WITHOUT PERMISSION FROM ANYWHERE, THIS INCLUDES SMALL CONSUMERABLE ITEMS SUCH AS WIRE etc.
- If you need to order equipment or consumables; look it/them up on Amazon and send Bruce a screen shot of it/them.

Journal



Student - Personal space to directly write, add attachments, pictures, scientific articles, experimental designs, relevant theory, results....

Supervisor – Add comments/feedback on progress

Journal should be –

- Completed as work progresses NOT at end of year.
- Logically formatted, with a clear structure

Completed for assessment mark, along with final report 19th April 2024

Journal

Student - Personal space to directly write, add attachments, pictures, scientific articles, experimental designs, relevant theory, results....

Only include relevant information – e.g. summarise meetings with supervisor NOT long essays!

Use to provide scientific literature, data analysis between yourself and supervisor.

Reporting Progress

Deliver a short presentation and discuss project with a staff panel.

- Describing –
 - aims of the project
 - background research
 - progress to date
 - Constraints (if any)
- plan of work for Trimester 2 with an approximate timescale

Submission of presentation slides and work plan Friday 8th December 2023

Oral presentation 1 (5 minutes) – Trimester 1 – week 13*

*Depending on timing of exam.

Dissertation

- Final report (≤ 6000 words)  Blackboard (week 31) 19th April 2024

Full details in Project Guides and advice from your supervisor.

- Oral presentation & Interview May 2022 (Exam period)

5 minutes presentation within a 20 minute session

Examiners' Visit

Provide an abstract by Friday 8th March 2024, 16:00.

w/c 18th March – visit of EE's to discuss your project.

10 minutes – Bring any information you think will help explain your project.

Purpose of Interview - For the External Examiners -

- to familiarise themselves with the subject and some of the results of your project.
- help them in making their assessments of the final reports in preparation for the final Examining Board.

Plagiarism

THE UNIVERSITY TAKES PLAGIARISM VERY SERIOUSLY, it is very important that you do not plagiarise, inadvertently or otherwise.

See BB > week 1 > Academic Integrity Misconduct Policy.pdf

What is Plagiarism?

The taking of work or an idea and passing it off as your own. This includes any text, diagrams, tables, graphs etc. that have been previously published (this includes information from internet).

The most common types of plagiarism include –

- Copying another individual's work, with or without their consent/knowledge, and presenting this as one's own work.
- Quoting or summarizing the work of another author without acknowledgement and appropriate referencing.

Finally

- Your project is a large part of your final year and can make a huge difference to your final degree classification.
- Work hard. Plan your work.
- Try to get as much of your project work completed in Trimester 1. This will allow you time in Trimester 2 to finish off your work and also give you time to write a “good” final report.

Initial Schedule

Week 1 – 22nd September – Submit Project Specification form

Week 2 – 29th September – Submit Risk Assessment and Ethics

Library workshop - Researching references (access books and websites)

Thursday 5th October, 14:00 -15:30, Online via Collaborate from 'Project in Physics' module site.

Week 4 – Submit full project plans into your Journal

Details for full academic year on Blackboard.