



Risk Assessment

Summary

Reference: RA053883/1

Sign-off Status: Authorised

Date Created:	14/10/2021	Confidential?	No
Assessment Title:	Risk assessment for 3rd-year software-based project		
Assessment Outline:	Risk assessment for the 3rd-year project (Analysis and optimisation of building management systems through data analytics and interpretable machine learning). The project is software-based which means that risks are related to long term computer usage.		
Area Responsible (for management of risks)	Location of Risks		
Division, School, Faculty, Institute:	Faculty of Engineering Science	Building:	Off-Site
Department:	Dept of Electronic & Electrical Eng	Area:	
Group/Unit:	All Groups/Units	Sub Area:	
Further Location Information:	The work is conducted on a personal computer in UCL libraries, labs and at private accommodation.		
Is this a GMM Class 1 Risk Assessment?:	UNITED KINGDOM		
Assessment Start Date:	14/10/2021	Review or End Date:	14/10/2022
Relevant Attachments:	Description of attachments:		
	Location of non-electronic documents:		
Assessor(s):	GRAMMENOS, RYAN Sal, David		
Approver(s):	RYAN GRAMMENOS		
Signed Off:	RYAN GRAMMENOS (15/10/2021 09:25)		

PEOPLE AT RISK (from the Activities covered by this Risk Assessment)

CATEGORY

Undergraduates

1. Long term computer usage

Description of Activity:

When working on a project like this one has to work an excessive amount of time in front of computers. The activities include literature review, background studies, online courses and programming.

Hazard 1. Incorrect posture when sitting in front of a computer

Harm to the musculoskeletal system that causes long term health issues.

Existing Control Measures

Taking regular breaks every 30 minutes and exercising.

Placing the screen at eye level to avoid neck pain.

Adjusting the chair to properly support the lower back.
The hip should be as far back on the chair as possible.
The upper back should be straight with the shoulders relaxed.

Hazard 2. Incorrect chair height

This can lead to incorrect keyboarding techniques which can cause repetitive strain injuries.

Existing Control Measures

Taking regular breaks every 30 minutes and exercising.

Having a chair with adjustable height.

The arms should be relaxed at the sides with the upper- and lower arm forming a 90 degree angle, a straight wrist and relaxed fingers.

Hazard 3. Incorrect lighting in the room

Eye fatigue and damage to eye sight

Existing Control Measures

Taking regular breaks every 30 minutes and resting eyes.

Eliminate any lightsources that cause reflection/glare on the screen or adjust screen.

Hazard 4. Visual Display Units (VDU)

Radating electromagnetic waves from the VDU

Existing Control Measures

Using blue-light filters.

Hazard 5. Sedentary work for a long period of time

Increased risk of musculoskeletal disorders, diabetes and heart disease.

Existing Control Measures

Taking regular breaks every 30 minutes and exercising.

Risk Level

With Existing Controls:

Risk Level **B - Low / Tolerable**

2. Maximizing productivity and maintaining good mental health

Description of Activity:

Productivity and mental health are affected by the work environment and working habits.

Hazard 1. Temperature, humidity and and oxygen in the room

Not maintaining suitable levels can lead to hyperthermia, headaches and dehydration.

Existing Control Measures

The room should be well-ventillated with an acceptable room temperature.

Hazard 2. Noisy environment

Loss in productivity as one cannot concentrate in a noisy environment.

Existing Control Measures

Making sure to work in a quiet study space or using headphones with noise cancellation.



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Hazard 3. Individual work

In some cases this can make the person feel alone and cause mental health issues.

Existing Control Measures

Finding a balance between work and social life.

Hazard 4. Late night working with early mornings

Working late at night but having to get up early will lead to sleep deprivation which decreases productivity and increases stress.

Existing Control Measures

Ensuring to have at least 7 hours of sleep every day by creating a daily schedule or setting reminders to go to sleep.

Risk Level

With Existing Controls:

Risk
Level **B - Low /
Tolerable**



Actions

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Actions associated with this Risk Assessment	
*** No Actions have been recorded***	