

Activity being assessed:	Operation of drones/UAVs to carry out research or other activities for the School of Architecture & Dept of Landscape Architecture (TEMPLATE ONLY).			Reference no:	
Location:	Various (see Site Specific assessments)	Assessment date:	31/3/23	Review period:	1 year

Significant Hazards What could cause harm?	What harm might occur, and to whom? Remember to consider all affected groups	Existing control measures	Risk Rating (with current controls)			Additional control measures What can we do / use / put in place to further reduce the risks to an acceptable level?	Residual Risk			Action no. (continues over page)
			L	S	RR		L	S	RR	
LiPo batteries catching fire	Drone operators/pilots	Ensure batteries are charged and stored in a battery safe bag or box. Inspect battery condition before charging. Charging batteries should not be left unattended. Ensure chargers are PAT tested and in good condition.	1	3	3					
Collision with drone that has malfunctioned or is out of control	Collision with persons. Bodily harm or death. Drone pilots, spectators, staff, students, visitors, members of the public. Damage to property.	Pilot competency to align with level of risk each flight represents. Site specific risk assessment to be carried out beforehand. Drones are to be correctly maintained in accordance with manufacturers guidelines.	1	5	5					

		Drone Pilots to complete Drone & Model Aircraft Registration Scheme and training (DMARES). Drone Pilots to be suitably trained and experienced. Consider use of a Geofence. Only Open A1 and A3 (basic, low risk) category flying allowed without further authorisation from the CAA for Specific categories. The pilot must maintain direct, unaided visual contact and make sure has full view of surrounding airspace. Do not fly >400ft (120m) high. Do not fly <50m to a person or building. During landing/take-off the drone must not fly <30m of any person except the pilot								
Manual handling drone equipment	Musculoskeletal injuries to handler.	Package equipment appropriately. Ensure boxes are not too heavy or unbalanced.	1	2	2					

		Ensure firm footing when lifting.								
		Complete UoS Manual Handling Training								
Drone colliding with other aerospace users	Members of public, aerospace users. Death.	Site specific risk assessment to be carried out beforehand. Drone Pilots to complete Drone & Model Aircraft Registration Scheme and training (DMARES). Drone Pilots to be suitably trained and experienced. Consider use of a Geofence. The pilot must maintain direct, unaided visual contact and make sure has full view of surrounding airspace. Consideration of local aerodromes must be taken and flights must not operate within flight restriction zones.								
Damage to neighbouring property	Damage to property, liability to University	Care must be taken not to fly over non-UoS land without prior permission of landowners. Consult map of flight zone.	1	3	3					

		Consider using Geofence.							
Accident whilst travelling to and from site by car.	Drone operators/pilots, bodily harm, death.	You must be a Registered Driver with the University for carrying out related activities (& claiming mileage) Take extra care whilst driving during poor weather conditions. Ensure vehicle is roadworthy.	1	5	5				
Accident/injury on site		Carry a charged mobile phone at all times. Notify colleagues of whereabouts and expected departure time. Lone working should be avoided. Carry a First Aid kit if site is remote. Be aware of location of First Aid boxes.	1	4	4				

Action number	Action required	Who is responsible?	By when?	Date completed

Likelihood	Guide Description
5	Very likely/imminent – certain to happen
4	Probable – a strong possibility of it happening
3	Possible – it may have happened before
2	Unlikely - could happen but unusual
1	Rare – highly unlikely to occur

Severity	Guide Description
5	Catastrophic - fatality, catastrophic damage
4	Major – significant injury or property damage, hospitalisation
3	Moderate - injury requiring further treatment, lost time
2	Minor - first aid injury, no lost time
1	Very minor – insignificant injury

L i k e l i h o o d (L)		Severity (S)				
		1	2	3	4	5
	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5

Risk Rating (RR)	Action
High Risk	Stop the task/activity until controls can be put into place to reduce the risk to an acceptable level
Medium Risk	Determine if further safety precautions are required to reduce risk to as low as is reasonably practicable
Low Risk	No further action, keep under review

Signature of Risk Assessor		Name / job title:	
Details of any persons consulted			