

Course “Innovation of Molecular Biosensors” – MODULES AND SCHEDULE

Modules: 10 theoretical, 5 experimental

Module #	Title	Part of the project	Evaluation	Individual or collective evaluation?	Time span	Credits module
1	Theory	Literature research, evaluation of the market and scientific possibilities that could theoretically work	Report and presentation	Subteams and entire team	November – February (HT 2019 + VT 2020)	5 hp
		Detailed planning for the development of the prototype biosensor				
2	Laboratory 1 – individual parts biosensor	Development and testing of different modules of the biosensor, e.g. biological assays, engineering part, etc	report and presentation	subteams	Mid February- mid April (VT 2020)	4 hp

3	Laboratory 2 – assembly entire biosensor	Assembly and testing of the prototype and finalizing the biosensor	report and presentation	entire team	Mid April- beginning August (VT 2020 + summer)	4 hp
4	Final report and presentation	Presentation of the biosensor at the competition; final presentation and report	Performance at the competition; final presentation and report. Individual report	entire team (individual)	August (HT 2020) September	2 hp

Activity	When	Regular basis	Where
Seminar for the entire team	Monday 12.15 – 13h	Weekly	TBA (BMC or Ångströmlab)
Seminar with an expert OR Seminar hands-on work AND/OR Lab work	Thursday 17.15 – 19h	Weekly	TBA (BMC or Ångströmlab)
Seminar: scientific discussion	Monday 17.15 - 19h	Monthly	TBA (BMC or Ångströmlab)

Minimum of 80% attendance required to pass the course. However as a team we expect all of you to join to all events and highly appreciate to be notified (Uppsala.Sensus@gmail.com) if you cannot join.