

HANDBOOK OF MINOR FIELDS
APPLICABLE FOR STUDENTS WHO ENROLLED ON SEMESTER 1 2019/2020 AND ONWARDS

INTRODUCTION

1. Minor is the focus of the second study program in the field offered for students of the bachelor of education program.
2. This book is provided as a guide for students and lecturers in making choices or giving advice on suitable minor fields to follow.
3. Minor field registration is open to students of the second semester education program from the fifth week of the semester.
4. Students need to register for the field through the student portal with guidelines that will be issued by BHEA through notices from time to time.
5. Students can choose to register a minor field in the package, which is a field that has been set for the program or a minor field outside the package, which is a minor field whose registration is open to any program.
6. In order to apply for the registration of a non-package minor field, students need to fill in the Non-Package Minor Field Application Form with the approval of their own Head of Department and Dean of the faculty as well as the Head of Department and Dean of the faculty offering the minor field. Forms are also available at the faculty office or Scheduling Unit and can also be downloaded from the following BHEA website <https://bhea.upsi.edu.my/>.
7. Students must ensure that the registered minor field is correct until graduation because the registered minor field will be recorded in the student's official transcript.
8. The exchange of minor fields is not allowed except with the permission of the Head of Department and the Dean of the respective faculty.
9. The permission to change the minor field is only once throughout the course of study and students are asked to make arrangements for the change at the Scheduling Unit, BHEA.
10. Minor field offers, conditions and packages listed in this handbook are subject to changes made by the faculty from time to time.
11. Any questions about the registration of students' minor fields can be emailed to the following address: tela.bhea@upsi.edu.my

No.	Faculty Minor Fields
1.	Faculty of Language and Communication
2.	Faculty of Music and Performing Arts
3.	Faculty of Management and Economics
4.	Faculty of Humanities
5.	Faculty of Sports Science and Coaching
6.	Faculty of Science and Mathematics
7.	Faculty of Computer Arts and Creative Industries
8.	Faculty of Technical and Vocational
9.	Faculty of Human Development

***UPDATE 2**

Students must obtain faculty confirmation regarding the list of courses for the chosen minor field.

This translated version contains only the relevant part of the full version of the Handbook of Minor Fields for the purpose of ASIIN accreditation application.

FACULTY OF SCIENCE AND MATHEMATICS																																																				
NO.	MINOR FIELD	PROGRAMS THAT CAN APPLY	PREREQUISITE	LIST OF COURSES																																																
6	Biology	<ul style="list-style-type: none">Science EducationChemistry EducationPhysics EducationMathematics EducationAgricultural Science EducationSpecial education	<p>Get at least Grade C (NGMP 2.00) at STPM level in any two (2) of the following Science subjects:</p> <ul style="list-style-type: none">Biology andChemistry/ Physics/ Mathematics/ Mathematics T/ Further Mathematics T <p style="text-align: center;">AND</p> <p>Get at least 6C at SPM level in the subject the following:</p> <ul style="list-style-type: none">Biology & English & any one (1) of the following subjects:Chemistry/Physics <p style="text-align: center;">AND</p> <p>Get at least a 6C/Grade C at the SPM level in the following subjects:</p> <ul style="list-style-type: none">Mathematics/Additional Mathematics <p style="text-align: center;">OR</p> <p>Get at least Grade C (NGMP 2.00) at the level Matriculation/Foundation in any two (2) of the following subjects;</p> <ul style="list-style-type: none">Biology andChemistry/ Physics/ Mathematics/ Computer Science <p style="text-align: center;">AND</p> <p>Get at least 6C at SPM level in the subject the following:</p> <ul style="list-style-type: none">Biology & English & any one (1) of the following subjects:Chemistry/Physics <p style="text-align: center;">AND</p> <p>Get at least 6C/Grade C at SPM level in points the following subjects:</p> <ul style="list-style-type: none">Mathematics/Additional Mathematics	<table><tr><th>CODE</th><th>COURSE NAME</th><th>CREDIT</th><th>ECTS</th></tr><tr><td>SBC3013</td><td>Cell Biology</td><td>3</td><td>4.8</td></tr><tr><td>SBB3014</td><td>Evolution and Biodiversity (Compulsory Minor)</td><td>4</td><td>6.4</td></tr><tr><td>SBU3033</td><td>Genetics</td><td>3</td><td>4.8</td></tr><tr><td>SBC3043</td><td>Developmental Biology</td><td>3</td><td>4.8</td></tr><tr><td>SBF3043</td><td>Plant Physiology</td><td>3</td><td>4.8</td></tr><tr><td>SBF3033</td><td>Animal Physiology</td><td>3</td><td>4.8</td></tr><tr><td>SBB3033</td><td>Principles in Microbiology</td><td>3</td><td>4.8</td></tr><tr><td>SBK3013</td><td>Principles in Biochemistry</td><td>3</td><td>4.8</td></tr><tr><td>SBV3013</td><td>Ecology</td><td>3</td><td>4.8</td></tr><tr><td>SBV3012</td><td>Emerging Issues in Biology and Environment (Minor Wajib)</td><td>2</td><td>3.2</td></tr><tr><td colspan="2">TOTAL</td><td>21</td><td>48</td></tr></table>	CODE	COURSE NAME	CREDIT	ECTS	SBC3013	Cell Biology	3	4.8	SBB3014	Evolution and Biodiversity (Compulsory Minor)	4	6.4	SBU3033	Genetics	3	4.8	SBC3043	Developmental Biology	3	4.8	SBF3043	Plant Physiology	3	4.8	SBF3033	Animal Physiology	3	4.8	SBB3033	Principles in Microbiology	3	4.8	SBK3013	Principles in Biochemistry	3	4.8	SBV3013	Ecology	3	4.8	SBV3012	Emerging Issues in Biology and Environment (Minor Wajib)	2	3.2	TOTAL		21	48
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