

## FYUGP BIOCHEMISTRY AND INDUSTRIAL MICROBIOLOGY

Semester	Course		Course Code
<b>SEM 1</b>	DSC	Basic elements of biochemistry	UK1DSCBCH100
	DSC	Introduction to microbial world	UK1DSCMBY101
	MDC	Nutritional biochemistry for health and fitness	UK1MDCBCH101
<b>SEM 2</b>	DSC	Introduction to biomolecules	UK2DSCBCH100
	DSC	Basic techniques in microbiology	UK2DSCMBY101
	MDC	Entrepreneurial microbiology	UK2MDCMBY102
<b>SEM 3</b>	DSC	Properties of biomolecules and enzymology	UK3DSCBCH206
	DSC	Food and dairy microbiology	UK3DSCMBY201
	DSE	Nutrition for human health	UK3DSEBCH200
	VAC	Microbial waste management	UK3VACMBY201
<b>SEM 4</b>	DSC	Techniques in biochemistry	UK4DSCBCH204
	DSC	Microbial genetics	UK4DSCMBY201
	DSE	Microbial physiology & systematics	UK4DSEMBY202
	VAC	Play of hormones	UK4VACBCH200
	VAC	Ecology & environmental studies	UK4VACBCH202
	SEC	Food quality control	UK4SECMBY202
<b>SEM 5</b>	DSC	Molecular biology	UK5DSCBCH303
	DSC	Environmental biochemistry	UK5DSCBCH304
	DSC	Industrial microbiology	UK5DSCMBY301
	DSE	Intermediary metabolism & bioenergetics	UK5DSEBCH302
	DSE	Cell biology	UK5DSEMBY301
	SEC	Quality assurance & quality control	UK5SECBCH301
<b>SEM 6</b>	DSC	Clinical biochemistry	UK6DSCBCH303
	DSC	Medical microbiology	UK6DSCMBY301
	DSC	Environmental & agricultural microbiology	UK6DSCMBY305
	DSE	Physiology, Nutrition & endocrinology	UK6DSEBCH302
	DSE	Immunology	UK6DSEMBY301
	SEC	Scientific writing & presentation	UK6SECMBY301
<b>SEM 7</b>	DSC	Research methodology	UK7DSCBCH402
	DSC	Biophysics & instrumentation	UK7DSCMBY403
	DSE	Tissue engineering & 3D printing	UK7DSEBCH400
<b>SEM 8</b>		Capstone internship project in biochemistry OR Capstone internship project in Microbiology	

		AND	
		Project by research in microbiology	UK8RPHMBY400
		OR	
		Project by research in biochemistry	UK8RPHBCH400

### COMPLEMENTARY COURSE CHEMISTRY

Semester	Course		Course Code
SEM 1	DSC	General chemistry I	UK1DSCCHE105
	MDC	Fundamental aspects of environmental chemistry	UK1MDCCHE100
SEM 2	DSC	Biomolecules and biophysical chemistry- I	UK2DSCCHE105
	MDC	Food chemistry	UK2MDCCHE101
SEM 3	DSC	General chemistry III	UK3DSCCHE206
	VAC	Laboratory safety	UK3VACCHE200
SEM 4	DSC	Analytical principles - I	UK4DSCCHE201
	VAC	Sustainable chemistry	UK4VACCHE200
	SEC	Water quality analysis	UK4SECCHE200
SEM 5	DSC	Inorganic chemistry III B	UK5DSCCHE305
	SEC	Preparation & formulation of herbal products	UK5SECCHE301
SEM 6	DSC	Physical chemistry - IV	UK6DSCCHE304
	SEC	Chromatography	UK6SECCHE300

### COMPLEMENTARY COURSE BIOCHEMISTRY

Semester	Course		Course Code
SEM 1	DSC	Physical aspects of biochemistry	UK1DSCBCH104
	MDC	Nutritional biochemistry for health and fitness	UK1MDCBCH101
SEM 2	DSC	Molecules of life	UK2DSCBCH105
	MDC	Biochemistry of lifestyle diseases	UK2MDCBCH100
SEM 3	DSC	Phytochemistry	UK3DSCBCH205
	VAC	Basic dietetics	UK3VACBCH200
SEM 4	VAC	Play of hormones	UK4VACBCH200
	VAC	Ecology & environmental studies	UK4VACBCH202
	SEC	Enzyme isolation and analysis	UK4SECBCH200
SEM 5	SEC	Basic techniques in biochemistry	UK5SECBCH300

	SEC	Quality assurance & quality control	UK5SECBCH301
<b>SEM 6</b>	SEC	Cell culture techniques	UK6SECBCH301

### AEC -OL-Malayalam

Semester	Category	Course Name	Course Code
1	AEC	ഭാഷാകേരളീപഠനം	UK1AECMAL100
	AEC	"മാകേ ാ"ം	UK1AECMAL107
2	AEC	പ്രചാരണോത്തമ സോഫിസ്റ്റിംഗ്	UK2AECMAL100
	AEC	കേരളീയ ഗാനപാരമ്പര്യം	UK2AECMAL103

### AEC -OL-Hindi

Semester	Category	Course Name	Course Code
1	AEC	HINDI EKANKI( For BA Students)	UK1AECHIN100
	AEC	HINDI KHANI( For BSc Students)	UK1AECMAL102
	AEC	HINDI KAVITHA ( For Bcom Students)	UK1AECMAL103
	AEC	HINDI DRAMA ( For All UG Students)	UK1AECMAL104
2	AEC	HINDI SANRACHANA AUR WEB LEKHAN( For BA Students)	UK2AECHIN100
	AEC	JEEVANI AATHMAKATHA AUR SOCIAL MEDIA( For BSc Students)	UK2AECMAL102
	AEC	VYAVAHARIK HINDI ( For Bcom Students)	UK2AECMAL103
	AEC	HINDI CINEMA ( For All UG Students)	UK2AECMAL104

## FYUGP Course Basket (AEC -ENGLISH)

<b>Semester</b>	<b>Category</b>	<b>Course Name</b>	<b>Course Code</b>
<b>1</b>	AEC 1	Listening and Speaking in English	UK1AECENG113
	AEC 2	Food, Literature and Culture 1	UK1AECENG102
	AEC 3	Science Through the Prism of English I	UK1AECENG103
	AEC 4	Business Communication I	UK1AECENG104
	AEC 5	Reading Literature I	UK1AECENG110
	AEC 6	Voices of Humanity 1	UK1AECENG100
	AEC 7	Reflections on Language, Literature, and Society 1	UK1AECENG105
	AEC 8	English for Social Sciences	UK1AECENG106
	AEC 9	Technology, Science, and Imagination I	UK1AECENG111
<b>2</b>	AEC 1	Reading and Writing in English	UK2AECENG113
	AEC 2	Food, Literature and Culture 2	UK2AECENG102
	AEC 3	Science Through the Prism of English 2	UK2AECENG103
	AEC 4	Business Communication II	UK2AECENG104
	AEC 5	Reading Literature II	UK2AECENG110
	AEC 6	Voices of Humanity 2	UK2AECENG100
	AEC 7	Reflections on Language, Literature, and Society 2	UK2AECENG105
	AEC 8	English for Social Sciences II	UK2AECENG106
	AEC 9	Technology, Science, and Imagination II	UK2AECENG111