

**BACHELOR OF TECHNOLOGY WITH EDUCATION (MECHANICAL ENGINEERING)
WITH HONOURS
PROGRAMME STRUCTURE (SHPJH)
INTAKE 2022/2023**

September Intake

YEAR 1

Semester 1

SHPP1002	Educational Philosophy	2
SHPP1022	Teacher Professionalism	2
SHPE1002	Basic Engineering Drawing	2
SHPE1033	Workshop Safety and Management	3
SSCM1803	Engineering Mathematics	3
ULRS1022	Philosophy and Current Issues	2
ULRS1182	Appreciation of Ethics and Civilization	2
TOTAL		16

Semester 2

SHPP1012	Educational Psychology	2
SHPP1042	Educational Technology	2
SHPE1012	Basic Trade	2
SHPE1022	Engineering Drawing 1	2
SEEU1003	Basic of Electrical Engineering	3
SEMU1212	Statics	2
ULRS1012	Value and Identity	2
UHLB1112 (MUET 1-3)	English Communication Skills	2 (HL)
1XX3	Free Elective	3
TOTAL		18

YEAR 2

Semester 1

SHPP2002	Fundamental of Pedagogy	2
SHPP1032	Telecommunication and Computer Network	2
SHPE2022	Fundamental of TVE	2
SHPE2112	Computer Assisted Engineering Drawing	2
SHPE2032	Basic Invention	2
SHPE2122	Basic Welding and Metal Fabrication	2
SEMU2112	Mechanic of Solid	2
SEMU2712	Basic Production Technology	2
UHLB2122	Academic Communication Skills	2
TOTAL		18

Semester 2

SHPP2032	Measurement and Evaluation in Education	2
SHPP2882	Co-curriculum Management, Sport and Games	2
SHPE2012	Teaching Methods in TVE	2
SHPE2622	Industrial Design	2
SHPEXXX2	Elective 1	2
SHPEXXX2	Elective 2	2
SEMU2212	Dynamics	2
ULRF2XX2	Co-Curriculum Service Learning Elective (CCSL)	2
TOTAL		16

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YEAR 3

Semester 1

SHPP3042	Research Methods in Education	2
SHPE3022	Industry and Technical and Vocational Education	2
SHPA2001	Microteaching	1
SHPEXXX2	Elective 3	2
SHPEXXX2	Elective 4	2
SEMU2412	Thermodynamics	2
UHLB3132	Professional Communication Skills 2	2
ULRS3032	Entrepreneurship and Innovation	2
UHLX1112	Foreign Language Electives	2
TOTAL		17

Semester 2

SHPA3008	Teaching Practice	8
TOTAL		8

Short Semester

SHPA3113	Industrial Training	3 (HL)
TOTAL		3

YEAR 4

Semester 1

SHPP4062	Educational Sociology	2
SHPU4902	Undergraduate Project I	2
SHPL4403	Invention	3
SHPE4173	Assessment and Measurement Based on Job Competency	3
SHPE4612	Basic Pneumatic and Hydraulics	2
SEMU3612	Material Science	2
SEMU3812	Industrial Engineering	2
TOTAL		16

Semester 2

SHPP4502	Guidance and Counselling	2
SHPP4043	Teacher Development	3
SHPU4904	Undergraduate Project II	4
SHPE3512	Basic Robotics and Mechatronic	2
SHPEXXX2	Elective 5	2
SEMU2312	Fluid Mechanics	2
TOTAL		15

Total Credit 127
Counted Credit 124