LAMPIRAN B

PEMETAAN MATLAMAT PENDIDIKAN INSTITUSI VS. OBJEKTIF PENDIDIKAN PROGRAM (PE0)
&
MATLAMAT PENDIDIKAN INSTITUSI VS. HASIL PEMBELAJARAN PROGRAM (PLO)

PROGRAM: SARJANA TEKNOLOGI BIOPROSES (*Master in Bioprocess Technology*)

PTJ: TEKNOLOGI INDUSTRI

a) Pemetaan PEO - IEG

PEO	PEO statement	THINKER (T)	BALANCED (B)	ENTREPRENEURIAL (E)	ARTICULATE (A)	HOLISTIC (H)
		IEG1	IEG2	IEG3	IEG4	IEG5
PEO1	Integrate knowledge and understanding of critical thinking using practical skills to produce innovative solutions in the field of Bioprocess Technology. *(Mengintegrasikan pengetahuan dan pemahaman berfikir secara kritis menggunakan kemahiran praktikal bagi menghasilkan penyelesaian yang inovatif dalam bidang Teknologi Bioproses).*	√				
PEO2	Able to effectively communicate current issues and challenges in leading peers and stakeholders while ensuring professional and ethical practices are maintained. *(Mampu berkomunikasi dengan berkesan terhadap isu dan cabaran semasa dalam memimpin rakan sebaya dan pihak berkepentingan sambil memastikan amalan profesional dan etika sentiasa dipelihara).*		√		√	

PEO3	Manage personal skills efficiently in applying various digital and numerical technologies required in providing innovative solutions to the bioprocess industry. *(Mengurus kemahiran personal dengan cekap dalam mengaplikasikan pelbagai teknologi digital dan numerasi yang diperlukan dalam menyediakan penyelesaian inovatif kepada industri bioproses).*			√		
PEO4	Organize lifelong learning resources through interpersonal skills and professionalism towards academic and career advancement in the bioprocess industry sector. *(Mengatur sumber pembelajaran sepanjang hayat melalui kemahiran interpersonal dan profesionalisme ke arah kemajuan akademik dan kerjaya dalam bidang industri bioproses).*					√

b) Pemetaan PLO - IEG

PLO	MQF 2.0 DOMAIN	PROGRAM LEARNING OUTCOMES, PLO	IEG ELEMENT	
PLO1	Knowledge & Understanding	Able to demonstrate knowledge and a comprehensive understanding of interdisciplinary concepts across various disciplines related to Bioprocess Technology.	IEG1	**THINKER (T)**
PLO2	Congnitive Skills	Able to conduct related research independently using the appropriate technology tools in the field of Bioprocess Technology to produce consistent and valid data.	IEG1	**THINKER (T)**
PLO3	Praktikal Skills	Able to analyze and solve problems related to Bioprocess Technology critically and innovatively with using knowledge, skills, and appropriate research methods.	IEG1 IEG2	**THINKER (T)** **BALANCED (B)**
PLO4	Interpersonal Skills	Able to communicate effectively through the involvement of activities related to Bioprocess Technology with peers and other related communities.	IEG4	**ARTICULATE (A)**
PLO5	Communication Skills	Able to demonstrate interpersonal skills in resource management planning and solving problems in group activities.	IEG4	**ARTICULATE (A)**
PLO6	Ethics and Professionalism	Able to exhibit understanding, awareness, and compliance with biosafety, ethical, professional, social and legal issues related to Bioprocess Technology.	IEG2	**BALANCED (B)**
PLO7	Leadership, Autonomy, and Responsibility	Able to integrate knowledge and skills across various related fields through a lifelong learning process along with technological change.	IEG5	**HOLISTIC (H)**
PLO8	Enterpreneurial Skills	Able to exhibit knowledge and skills related to entrepreneurship concepts in a Bioprocess Technology related environment setting.	IEG3	**ENTREPRENEURIAL (E)**
PLO9	Personal Skills	Able to function effectively as a responsible individual, either as a leader or member of a different team from various disciplines.	IEG5	**HOLISTIC (H)**
PLO10	Digital Skills	Able to apply various digital technology and appropriate software to improve the research quality.	IEG2	**BALANCED (B)**
PLO11	Numeracy Skills	Able to analyze and evaluate the study data related to Bioprocess Technology effectively by using quantitative / qualitative methods.	IEG1	**THINKER (T)**