

Specifications of WP, EA, and SDG by WA

Graduate Attributes	Program Outcomes						WP1					WP2	WP3-WP7	EA1-EA5
			WK1	WK2	WK7		WK3	WK4	WK5	WK6	WK8			
					SDG				SDG			SDG		
WA1	PO1		X	X			X	X						
WA2	PO2	SDG	X	X			X	X						
WA3	PO3	SDG							X					
WA4	PO4										X			
WA5	PO5			X						X				
WA6	PO6	SDG	X		X				X					
WA7	PO7					X								
WA8	PO8					X								
WA9	PO9													X
WA10	PO10													
WA11	PO11										X			

PO1 to PO6: [WP1] +≥2[WP2-7];
PO9: ≥2[EA];

SDG (must-have) = PO2, PO6, WK7;
SDG (good-to-have) = PO3, WK5, WP2

The above table summarises the specifications of Graduate Attributes (WA) and Programme Outcomes (PO) concerning Knowledge and Attitude Profiles (WK), Complex Engineering Problems (WP), Complex Engineering Activities (EA), and Sustainable Development Goals (SDG).

When the POs are well-aligned with WAs, the implementation rules are as follows:

1. WPs must be included in courses attaining PO1 to PO6. WP1 is compulsory, and at least two of WP2 to WP7 should be included.
2. EAs are for courses related to PO9. At least two of EA1 to EA5 are required.
- 3 SDGs are mandatory for PO2, PO6, and WK7. They may also be included in PO3, WK5, and WP2 (good to have).