Medical Education

Development of a structured validated module to inculcate research skills in medical undergraduates

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SUPPLEMENTARY TABLE I. Face validation of the module by 10 external experts

Format and presentation	1	2	3	4	5	6	7	8	9	10
Well-organized, logical and sequential flow of topics	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Clear and easy language to understand	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Attractive and interesting student engagement activities	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Unique and original approach	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Well-suited to time availability	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
Executable with minimum facilities and equipment	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Quality information	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Y Yes   N No

SUPPLEMENTARY TABLE II. Content validation of the module by 10 external experts

Criteria	1	2	3	4	5	6	7	8	9	10	I-CVI	C-CVI
Learning objectives												
Specific and clearly stated	1	1	1	1	1	1	1	1	1	1	1	0.96
Measurable	0	1	1	1	1	1	1	1	1	1	0.90	
Attainable	1	1	1	1	1	1	1	1	1	1	1	
Relevant to student curriculum	1	1	1	1	1	1	1	1	1	1	1	
Achievable in the time specified	1	1	1	0	1	1	1	1	1	1	0.90	
Scientific content												
Relevant and aligned to the learning objectives	1	1	1	1	1	1	1	1	1	1	1	1
Covers all aspects of the sessions	1	1	1	1	1	1	1	1	1	1	1	
Equal emphasis on all sub-sessions	1	1	1	1	1	1	1	1	1	1	1	
Includes sufficient examples and exercises	1	1	1	1	1	1	1	1	1	1	1	
Sufficient resources provided	1	1	1	1	1	1	1	1	1	1	1	
Teaching methodology and assessment												
Aligned to learning objectives	1	1	1	1	1	1	1	1	1	1	1	0.98
Learner-centred approach	1	1	1	1	1	1	1	1	1	1	1	
Appropriate and relevant	1	1	1	1	1	1	1	1	1	1	1	
Competency attainment approach	1	1	1	1	1	1	1	1	1	1	1	
Includes sufficient feedback	0	1	1	1	1	1	1	1	1	1	0.90	
Effectiveness of the module												
Will motivate students to be involved in research	1	1	1	1	1	1	1	1	1	1	1	0.96
Can be used for SDL at a later stage by students	1	0	1	1	1	1	1	1	1	1	0.90	
Develop analytical thinking in students	1	0	1	1	1	1	1	1	1	1	0.90	
Guide facilitators for teaching research to UGs	1	1	1	1	1	1	1	1	1	1	1	
Relevant to CBME curriculum	1	1	1	1	1	1	1	1	1	1	1	

SDL self-directed learning   UG undergraduate   CBME competency-based medical education