

Coordinating HEI	Country	Course name	Level (Diploma, Bachelors, Masters)	Mandatory or Optional	Updated or new	Degree of update	Phase (being developed or being Accredited or Implemented)	Course volume (local credits)	Course volume (in ECTS)	Degree/diploma (programme)	Students trained 2020	Students trained 2021	Students trained in 2022	Estimated Students per year from 2023 onwards	Pedagogical development	Additional info, e.g. of new elements
1	Nepal	Integrated Digital Electronics ELX315	B	M	U	Minor (0%-25%)	Implemented	3	6	Bachelor of Engineering in Electronics and Communication Engineering	30	18	48	48	PBL based group project with external stakeholders and the community	PBL methodology included in the form of open problem based projects, site visits, group activities. Previously no PBL used in this subject
2	Nepal	Final Year Project II ELX390	B	M	U	Signif. (50%-75%)	Implemented	2	4	Bachelor of Engineering in Electronics and Communication Engineering	-	15	30	30	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
3	Nepal	Final Year Project III ELX390	B	M	U	Signif. (50%-75%)	Implemented	4	8	Bachelor of Engineering in Electronics and Communication Engineering	-	15	30	30	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
4	Sagarmatha Engineering College	Final year Project I CE 707	B	M	U	Signif. (50%-75%)	Implemented	1.5	3	Bachelor of Engineering in Civil Engineering	5	22	48	48	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
5	Sagarmatha Engineering College	Final year Project II CE 705	B	M	U	Signif. (50%-75%)	Implemented	3	6	Bachelor of Engineering in Civil Engineering	5	22	48	48	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
6	Sagarmatha Engineering College	Final year Project I	B	M	U	Signif. (50%-75%)	Implemented	1.5	3	Bachelor of Engineering in Electronics and Information Engineering	15	11	6	15	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
7	Sagarmatha Engineering College	Final year Project I	B	M	U	Signif. (50%-75%)	Implemented	3	6	Bachelor of Engineering in Electronics and Information Engineering	15	11	6	15	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
8	Sagarmatha Engineering College	Final year Project I	B	M	U	Signif. (50%-75%)	Implemented	1.5	3	Bachelor of Computer Engineering	-	19	15	20	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
9	Sagarmatha Engineering College	Final year Project I	B	M	U	Signif. (50%-75%)	Implemented	3	6	Bachelor of Computer Engineering	-	19	15	20	PBL based group project with external stakeholders and the community	Inclusion of PBL methodology. Community problem based projects, site visits, group activities
10	Katmandu University	RF and Microwave Engineering	M	O	U	Mod. (25%-50%)	Implemented	3	6	Master of Engineering in Communications Engineering	6	-	10	10	PBL based group project with external stakeholders and the community	Teaching Methodology, Evaluation Methodology, Open ended problem approach. Previously no PBL used in this subject in the form of case study and open ended problem solving approach.
11	Katmandu University	Illumination Engineering	B	O	U	Mod. (25%-50%)	Implemented	3	6	Bachelor of Engineering in Electrical & Electronics Engineering	5	9	60	60	PBL based group project with external stakeholders and the community	Teaching Methodology, Evaluation Methodology, Open ended problem approach.
12	Katmandu University	Acoustic Engineering and Noise Reduction	B	O	U	Mod. (25%-50%)	Implemented	3	6	Bachelor of Engineering in Electrical & Electronics Engineering	0	11	15	15	PBL based group project with external stakeholders and the community	Teaching Methodology, Evaluation Methodology, Open ended problem approach. Previously no PBL used in this subject in the form of case study and open ended problem solving approach.
13	Katmandu University	Undergraduate project work	B	M	U	Signif. (50%-75%)	Implemented	3	6	Bachelor of Engineering in Electrical & Electronics Engineering	12	8	16	16	PBL based group project with external stakeholders and the community	Field works, problem identification.
14	Royal University of Bhutan	Basic Research Methods and Seminar (PRW202)	B	M	U	High (75%-100%)	Implemented	12	6	Bachelor of Engineering in Power Engineering Bachelor of Engineering in Surveying and Geomatics	22	26	60	60	PBL Research methods (theoretical) and Mini project with external stakeholders and the community where possible (practical)	This course is of one semester duration for Bachelors Level Programme. Here basic PBL methodological approaches with examples of the existing course have been incorporated. Then the mini project of the course has to follow PBL methodologies and approaches (where possible with field work elements). Earlier, there was only general concepts on research along with open ended project with no PBL component or objectives.
15	Royal University of Bhutan	Project Work (PRW 201)	D	M	U	High (75%-100%)	Implemented	12	6	Diploma in Civil Engineering Diploma in Electrical Engineering Diploma in Mechanical Engineering Diploma in Electronics & Communication Engineering Diploma in Surveying Diploma in Computer System & Network Diploma in Materials and Procurement Management	55	220	250	250	PBL Research methods (theoretical) and Mini project with external stakeholders and the community where possible (practical)	This course is of one semester duration for Diploma Level Programme. The methodological approach for the course is assigned to embed PBL approaches. Now entire process of project work following PBL approaches from starting until completion (where possible with field work elements) have been incorporated. Earlier, it was left open ended with no PBL elements.
16	Royal University of Bhutan	Project Work (PRW 404)	B	M	U	High (75%-100%)	Implemented	36	18	404-Bachelor of Engineering in Power Engineering & Bachelor of Engineering in Surveying and Geomatics	7	22	50	50	The course contents are design with PBL methodology with the major project work to be carried out in PBL based. The cases from communities and localities are prioritized.	This is a two semester project work. Here more of systematic flow of module is done in accordance to PBL methodological requirements. More of student and community/stakeholder engaged activities and also in some instances of relevant SDGs issues are encouraged as group work with final hard copy report submission as requirement. Students are mostly engaged in field works too.
17	Royal University of Bhutan	Project Work (PRW 405)	B	M	U	High (75%-100%)	Implemented	24	12	405-Bachelor of Engineering in Mechanical Engineering	0	0	30	30	The course contents are design with PBL methodology with the major project work to be carried out in PBL based. The cases from communities and localities are prioritized.	This is a two semester project work. Here more of systematic flow of module is done in accordance to PBL methodological requirements. More of student and community/stakeholder engaged activities and also in some instances of relevant SDGs issues are encouraged as group work with final hard copy report submission as requirement. Students are mostly engaged in field works too.
18	Asian Institute of Technology and Management	Enterprise Development Project Course	B	M	U	Mod. (25%-50%)	Implemented	3	6	Bachelor in International Hotel and Tourism Management	80	45	68	60	PBL based group project with external stakeholders and the community	The course's contents & activities are designed in PBL approach except previously students used to work individually. Now, the students are divided into groups of five/six & they carry out their activities in groups in the updated version of the course. Moreover, the student groups select the themes of their works in their own, take real world problems & go to nearby fields whenever possible.
19	Asian Institute of Technology and Management	Innovation Project	B	M	U	Minor (0%-25%)	Implemented	20 (UK credit)	10	Bachelor in Science (Hons) Computing and Information Technology (BSc (Hons) CIT)	-	-	28	40	PBL Research methods (theoretical) and Mini project with external stakeholders and the community where possible (practical)	This is a one semester project work. Each student group develops a prototype which also need to address at least one SDGs. Students mainly focus on developing prototype, however, students are also encouraged to submit written reports as deliverables.
20	Asian Institute of Technology and Management	Global Marketing Management	M	M	U	Mod. (25%-50%)	Implemented	20 (UK credit)	10	International Master in Business Administration (IMBA)	-	-	16	25	PBL based group project with external stakeholders and the community	The course's contents & activities are designed in PBL approach except previously students used to work individually. Now, the students are divided into groups of five/six & they carry out their activities in groups in the updated version of the course. Moreover, the student groups select the themes of their works in their own, take real world problems & go to nearby fields whenever possible.
21	Indian Institute of Technology Bombay	Construction Management Studio	M	M	U	Mod. (25%-50%)	Implemented	4	5	Masters of Technology in Construction Technology and Management	20	21	22	25	PBL based project in software used in construction.	The course is structured for students to work in groups and design a problem based on PBL methodology and solve it using the software taught for Civil Engineers.
22	Indian Institute of Technology Bombay	Introduction to Civil Engineering	B	M	N	High (75%-100%)	Implemented	6	7	Bachelors of Technology in Civil Engineering	-	-	171	180	To engage students regarding societal scale and global challenges involving civil engineering domain with innovative, often multi-disciplinary solutions. Learning Outcome: An overall understanding of requirements of sustainable design of future infrastructure systems, particularly in the context of India's rapid urbanization and growth. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	
23	Indian Institute of Technology Bombay	B.Tech. Project	B	O	U	Mod. (25%-50%)	Implemented	6	7	Bachelors of Technology	-	-	3	3	The project is an individual research study which is now conducted with PBL pedagogy.	This is an optional course for students to do real life project work.
24	Indian Institute of Technology Bombay	M.Tech. Project	M	M	U	High (75%-100%)	Implemented	42	49	Masters of Technology in Construction Technology and Management	4	4	4	4	This is a master's level thesis project for M.Tech. students which frame the problem and solve it using PBL methodologies.	Mandatory course work requirement for M.Tech students.
25	Indian Institute of Technology Bombay	M.Tech. Credit Seminar (CE 502)	M	M	U	Mod. (25%-50%)	Implemented	4	5	Masters of Technology in Construction Technology and Management	4	4	4	10	The course involves student exploring a topic of interest and understanding and establishing challenges to be solved from a research perspective.	