



Sustainability-focused Courses

Courses	Example of Subjects	Educational aim	Sustainability-focused courses
Environmental Science and Technology			
B.Sc. Environmental Science and Technology https://reg.kpru.ac.th/th/data/curkpru/2567/6706.pdf	Climate Change Mitigation and Adaptation	Understand climate impacts and evaluate mitigation and adaptation responses.	Climate risks, greenhouse gas reduction, carbon credits and adaptation.
	Green Technology for the Environment	Apply green technologies to environmental problems.	Cleaner development, life-cycle assessment, eco-design and pollution prevention.
	Standards and Environmental Management	Understand environmental management systems and their application.	Environmental standards, organisational responsibility and cleaner technology.
	Wastewater Treatment System Management and Control	Develop approaches to managing wastewater treatment systems.	Water pollution prevention, wastewater treatment and water reuse.
	Industrial and Hazardous Waste Management	Understand safe and responsible industrial waste management.	Cleaner production, waste reduction and hazardous waste control.
Engineering Technology			
B.Eng. Engineering Technology Major: Energy Engineering and Control Systems major https://reg.kpru.ac.th/th/data/curkpru/2567/6706.pdf	Renewable Energy	Understand renewable energy resources and technologies.	Renewable energy alternatives and cleaner energy systems.
	Photovoltaics	Understand photovoltaic electricity generation and applications.	Solar electricity generation and renewable energy applications.
	Energy Audit and Conservation	Assess energy use and identify conservation opportunities.	Energy efficiency, auditing and reduction of energy waste.
B.Eng. Engineering Technology	Solar Energy Management Engineering	Develop engineering approaches to solar energy management.	Renewable electricity management and integration.
	Smart Community Energy Management	Explore energy management at community scale.	Community energy planning and efficient energy use.

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Major: Smart Grid and Electric Vehicle Engineering major https://reg.kpru.ac.th/th/data/curkpru/2567/6706.pdf	Energy Storage Systems	Understand energy storage technologies and applications.	Energy storage supporting renewable integration and system flexibility.
	Energy and the Environment	Examine relationships between energy systems and environmental impacts.	Renewable energy, environmental consequences and climate change.
	Net-zero Energy Management	Explore energy management towards a net-zero energy balance.	Energy demand reduction and integration of energy supply.
	Factory and Building Energy Management	Develop energy management approaches for factories and buildings.	Operational energy efficiency and energy conservation.
	Fuel Cell and Hydrogen Technology	Understand fuel-cell and hydrogen energy technologies.	Alternative energy pathways; environmental benefits depend on production methods and applications.
Civil Engineering Technology			
B.Tech. Civil Engineering Technology https://reg.kpru.ac.th/th/data/curkpru/2567/6717.pdf#page=64	Building Design with Sustainable Architectural Concepts	Develop environmentally responsive building design skills.	Sustainable architecture, appropriate site selection, materials and indoor environmental quality.
	Innovation and Sustainable Building Environments	Explore innovation in environmentally responsive buildings.	Sustainable building environments and environmental design considerations.
	Construction Materials for Energy Conservation	Evaluate materials in relation to building energy performance.	Energy-saving construction materials and building efficiency.
Social Development, Tourism, Communication and Business			
B.A. Social Development https://reg.kpru.ac.th/th/data/curkpru/2564/6406.pdf	Sustainable Development	Understand sustainable development principles and community applications.	Community self-reliance, participation and sustainable development practices.
B.A. Tourism Industry https://reg.kpru.ac.th/th/data/curkpru/2564/6407.pdf	Sustainable Tourism	Plan tourism while conserving destination resources.	Tourism carrying capacity, environmental conservation and sociocultural sustainability.
B.Com.Arts. (Communication Arts) https://reg.kpru.ac.th/th/data/curkpru/2565/6506.pdf	Community Communication for Sustainable Development	Develop communication approaches supporting community participation.	Communication for community engagement and sustainable development.

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B.B.A. Business Administration / Entrepreneurship major https://reg.kpru.ac.th/th/data/curkpru/2564/6407.pdf	Creative Economy and Sustainability in Modern Business	Connect business creation with sustainability considerations.	Creative economic activity and sustainability in business development.
	Social and Environmental Marketing	Understand marketing approaches addressing social and environmental concerns.	Responsible marketing and environmental considerations in consumption.
B.B.A. Logistics Management https://reg.kpru.ac.th/th/data/curkpru/2564/6412.pdf	Green Logistics and Supply Chain Management	Develop environmentally responsible logistics approaches.	Environmental management in logistics and supply chains.
Other Undergraduate Programmes			
B.Sc. Geoinformatics https://reg.kpru.ac.th/th/data/curkpru/2566/6602.pdf	Geoinformatics for Forest Ecosystems and Management	Apply geospatial methods to forest assessment and management.	Forest ecology, biodiversity, biomass assessment and sustainable forest management.
B.Tech. Industrial Technology https://reg.kpru.ac.th/th/data/curkpru/2565/6505.pdf	Energy Management in Industrial Plants	Understand energy management in industrial operations.	Industrial energy efficiency and energy conservation.
	Design and Application of Solar Energy Systems	Develop approaches to designing and applying solar energy systems.	Practical renewable energy system applications.
B.Ed. Social Studies https://reg.kpru.ac.th/th/data/curkpru/2567/6711.pdf	Environmental and Population Education	Understand population and environmental relationships in educational contexts.	Environmental education and population-related sustainability issues.
Postgraduate Programmes			
Ph.D. Administration and Development Strategy https://reg.kpru.ac.th/th/data/curkpru/2566/6603.pdf#page=52	Strategic Thinking and Strategies for Sustainable Administration and Development	Develop strategic thinking for sustainability-oriented administration.	Sustainability in strategic planning and development decisions.
	Knowledge Management in Organisations, Localities and Regions for Sustainable Development	Explore knowledge management supporting sustainable development.	Knowledge sharing and organisational learning for sustainable development.

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	Sustainable Development Strategy	Develop advanced approaches to sustainable development strategy.	Dedicated strategic analysis of sustainable development.
	Concepts and Theories of Sustainable Development	Build a theoretical foundation for analysing sustainable development.	Sustainability concepts and theories informing development decisions.
M.Ed. Curriculum and Instruction https://reg.kpru.ac.th/th/data/curkpru/2568/6806.pdf#page=123	Environmental Policy and Management for Education	Explore environmental policy and management in educational settings.	Environmental planning, governance and educational applications.
	Integrated Environmental Science for Education	Integrate environmental science into educational practice.	Environmental systems and interdisciplinary environmental education.
	Learning Management in Environmental Impact Assessment	Develop approaches to teaching environmental impact assessment.	Education on development impacts and preventive environmental responses.
	Learning Management in Urban Management	Develop approaches to teaching urban environmental management.	Urbanisation, land use and sustainable city development.
	Environmental Policy for Education	Understand environmental policy relevant to education.	Environmental governance and policy in educational contexts.
	Principles of Environmental Ecology for Education	Apply ecological understanding to resource management and education.	Ecosystem relationships, environmental stewardship and sustainable education.
Shared General Education Course			
General Education / Shared elective https://reg.kpru.ac.th/th/data/curkpru/2566/6600.pdf#page=29	Environmental Care	Develop understanding of sustainability and participation in environmental conservation.	Sustainable development, ecosystems, pollution, conservation and community participation.