

MAJOR BRANCHES OF ENGINEERING

<p><u>Electrical engineering</u></p> <ul style="list-style-type: none">a) Computer engineering<ul style="list-style-type: none">i) Software engineeringii) Hardware engineeringiii) Network engineeringb) Electronic engineering<ul style="list-style-type: none">i) Control engineeringii) Telecommunicationsiii) Digital electronics systemsc) Power engineeringd) Optical engineering	<p><u>Mechanical engineering</u></p> <ul style="list-style-type: none">a) Acoustical engineeringb) Vehicle engineering<ul style="list-style-type: none">i) Aerospace engineeringii) Marine engineeringiii) Naval architectureiv) Automotive engineeringc) Manufacturing engineeringd) Power plant engineeringe) Energy engineeringf) Optomechanical engineeringg) Thermal engineeringh) Sports engineering
<p><u>Chemical engineering</u></p> <ul style="list-style-type: none">a) Materials engineering<ul style="list-style-type: none">i) Metallurgical engineeringii) Ceramic engineeringiii) Polymer engineeringiv) Crystal engineeringv) Biomaterialsb) Molecular engineeringc) Biomolecular engineering<ul style="list-style-type: none">i) Genetic engineeringii) biochemical engineeringd) Process engineering<ul style="list-style-type: none">i) Textile engineeringii) Plastics engineeringiii) Paper engineeringiv) Petroleum refinery engineeringe) Corrosion engineering	<p><u>Civil engineering</u></p> <ul style="list-style-type: none">a) Structural engineering<ul style="list-style-type: none">i) Architectural engineeringii) Wind engineeringiii) Earthquake engineeringiv) Ocean engineeringb) Environmental engineering<ul style="list-style-type: none">i) Ecological engineeringii) Municipal or urban engineeringiii) Fire protection engineeringiv) Sanitary engineeringv) Wastewater engineeringc) Geotechnical engineering<ul style="list-style-type: none">i) Mining engineeringii) Foundation (engineering)d) Transport engineering<ul style="list-style-type: none">i) Highway engineeringii) Railway systems engineeringiii) Traffic engineeringe) Water resources engineering<ul style="list-style-type: none">i) River engineeringii) Groundwater engineeringiii) Coastal engineeringiv) Hydraulic engineering

INTERDISCIPLINARY BRANCHES OF ENGINEERING

<p><u>Agricultural engineering</u></p> <ul style="list-style-type: none"> a) Ecological engineering b) Aquaculture engineering c) Food engineering d) Forest engineering e) Natural resources engineering f) Biomechanical engineering g) Bioprocess engineering h) Health and safety engineering 	<p><u>Applied engineering</u></p> <ul style="list-style-type: none"> a) Automation/robotics b) Computer-aided drawing and design (CADD) c) Applied Construction d) Applied Electronics e) Applied Graphics f) Nanotechnology
<p>1) <u>Biomedical engineering</u></p> <ul style="list-style-type: none"> a) Bioinstrumentation b) Bioinformatics c) Biomechanics d) Biomaterial e) Biomedical optics f) Biotechnology g) Clinical engineering h) Neural engineering i) Pharmaceutical engineering j) Rehabilitation engineering k) Tissue engineering 	<p>1) <u>Biological engineering</u></p> <ul style="list-style-type: none"> a) Biochemical engineering b) Biomedical engineering c) Cellular engineering d) Genetic engineering, e) Molecular engineering f) Biomolecular engineering g) Bioresource engineering h) Bioprocess engineering
<p><u>Information engineering</u></p> <ul style="list-style-type: none"> l) Machine learning m) Data science n) Artificial intelligence o) Control theory p) Signal processing q) Telecommunications r) Image processing s) Information theory t) Computer vision u) Natural language processing v) Bioinformatics w) Medical image computing x) Autonomous robotics y) Mobile robotics 	<p><u>Industrial engineering</u></p> <ul style="list-style-type: none"> a) Manufacturing engineering b) Construction engineering <p><u>Nuclear engineering</u></p> <ul style="list-style-type: none"> i) Medical physics ii) Nuclear fuel iii) Radiation protection <p><u>Textile engineering</u></p> <ul style="list-style-type: none"> i) Apparel engineering ii) Fabric engineering