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# Fundamentals of soil science tnau pdf

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No Course No. Course Title Credit Hours 1 AGR 102 Fundamentals of Agricultural Meteorology 1+1 2 BIC 101 Fundamentals of Biochemistry 2+1 3 CRP 101 Fundamentals of Plant Physiology 2+1 4 AEC 101 Principles of Economics 1+1 5 SER 121 Principles and practices of sericulture 1+1 6 ENS 101 Principles of Environmental Sciences 1+1 7 FSN 111 Principles of Food Science and Nutrition 1+1 8 FOR 111 Agro Forestry 1+1 9 TAM 101/Eng 103 Development Education 0+1 10 NSS/ NCC 101 National Service Scheme/ National Cadet Corps Regd. in I Sem 11 PED 101 Physical Education Regd. in I Sem 12 PED 102 Yoga for Human Excellence Regd. in I Sem S. No Course No. Course Title Credit Hours 1 AGR 201 Weed Management 1+1 2 AEN 201 Fundamentals of Entomology 2+1 3 AGR 202 Irrigation Management 1+1 4 PAT 201 Fundamentals of Plant Pathology 2+1 5 SAC 201 Fundamentals of Soil Science 2+1 6 AMP 201 Livestock and Poultry Production Management 2+1 7 AGM 201 Fundamentals of Microbiology 2+1 8 AEX 201 Dimensions of Agricultural Extension 1+1 9 FMP 211 Farm Power and Machinery 1+1 10 AEC 201 Production Economics and Farm Management 1+1 11 NSS/NCC 101 National Service Scheme/ National Cadet Corps Regd. in I Sem 12 PED 101 Physical Education Regd. in I Sem S. No Course No. Course Title Credit Hours 1 AGR 203 Agronomy of field Crops- I 1+1 2 HOR 211 Production Technology of Fruits and Plantation Crops 2+1 3 SST 201 Principles and Practices of Seed Production 1+1 4 SWE 211 Fundamentals of Soil and Water Conservation Engineering 2+1 5 STA 211 Applied Statistics 1+1 6 ERG 211 Renewable Energy 1+0 7 AGR 204 Study Tour 0+1 8 AEN 202 Economic Entomology and Principles of Pest Management 2+1 9 PBG 201 Principles of Genetics and Cytogenetics 2+1 10 SAC 202 Soil Resource Inventory and Problem Soils 1+1 11 ANM 201 Introductory Nematology 1+1 12 NSS/NCC 101 National Service Scheme/ National Cadet Corps Regd. in I Sem 13 PED 101 Physical Education Regd. in I Sem S. No Course No. Course Title Credit Hours 1 AGR 301 Crop Production-I 0+1 2 AGR 302 Agronomy of field Crops- II 1+1 3 SAC 301 Soil Fertility, Fertilizers and Manures 2+1 4 AEN 301 Pests of Field Crops and their Management 1+1 5 PAT 301 Diseases of Field Crops and Their Management 1+1 6 ABT 301 Plant Biotechnology 2+1 7 PBG 301 Principles and Methods of Plant Breeding 2+1 8 AGM 301 Soil and Applied Microbiology 1+1 9 AEC 301 Agricultural Marketing, Trade and Prices 1+1 10 ARM 301 Agribusiness Management and Entrepreneurship 1+1 11 SST 301 Seed Quality Regulation and Storage 1+1 12 NCC 101 National Cadet Corps Regd. in I Sem S. No Course No. Course Title Credit Hours 1 AGR 304 Principles and practices of cropping and Farming Systems 1+1 2 AGR 303 Crop Production II 0+1 3 SAC 302 Crop and Pesticide Chemistry 2+1 4 AEX 301 Extension Methodologies and Transfer of Agricultural Technology 1+1 5 AEN 302 Pests of Horticultural Crops and their Management 1+1 6 NST 301 Fundamentals and Applications of nanotechnology 1+0 7 FPE 301 Post Harvest and Food Engineering 1+1 8 ENS 301 Environmental Pollution and Management 1+1 9 HOR 311 Production Technology of Vegetables and Spice crops 2+1 10 ENG 301 Soft skills for Employability 0+1 11 EXP 301 Experiential Learning - I 0+3 12 PAT 301 Principles of plant disease management 1+1 13 NCC 101 National Cadet Corps Regd. in I Sem S. No Course No. Course Title Credit Hours 1 AEX 401 Rural Agricultural Work Experience - RAWE (VSP+ADA+NGO+INDUSTRY) 0+5 2 APW 401 APW 401 0+2 3 AEX 402 All India Tour 0+1 S. No Course No. Course Title Credit Hours 1 AGR 401 Organic Farming 1+1 2 PBG 401 Breeding Field and Horticultural crops 2+1 3 PAT 401 Diseases of Horticultural crops and their management 2+1 4 AEC 401 Agricultural Finance, Banking and Co-operation 1+1 5 HOR 411 Production Technology of Flowers, Medicinal and Aromatic Crops 2+1 6 EXP 401 Experiential Learning II 0+3 7 ENS 401 Climate Change and Disaster Management 2+0 8 Optional Course Minimum of 2 credits 9 PRJ 401 Project Work Registered in VII Semester Book Detail: Fundamentals of Soil Science With Practical Language: English Pages: 133 Author: Dr. D. Tripathi, Dr. S. Mani, Sh. 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Practical - 9 Preparation of HCl extract Practical - 10 Determination of sesquioxides( Fe2O3 and Al2O3) Practical - 11 Determination of Calcium and magnesium Practical - 12 Determination of P2O5 and K2O Practical - 13 Determination of total Sulphur Practical - 14 Determination of Total Nitrogen Content of Soils Practical - 15 Determination of Organic Carbon Content of Soils Practical - 16 Determination of Cation Exchange Capacity of Soils Undergraduate programme (B.Sc. (Hons.) Agriculture) S.No. Course No. Course Title Syllabus Semester 1. SAC 101 Fundamentals of Soil Science (2+1) 2017 Odd I 2. RSC 101 Geo-informatics for Precision Farming (1+0) 2017 Even II 3. SAC 201 Fundamentals of Soil Science (2+1) 2015 Odd III 4. SAC 202 Soil Resource Inventory and Problem Soils ( 1+1) 2015 Even IV 5. SAC 301 Crop and Pesticide Chemistry ( 2+1) 2011 Even VI 6. SAC 302 Soil Resource Inventory and Problem Soils ( 2+1) 2011 Odd V 7. SAC 301 Soil fertility, Fertilizers and Manures (2+1) 2015 Odd V 8. NST 301 Fundamentals and applications of Nanotechnology (1+0) 2015 Even VI 9. SAC 401 Nutrient Management and Fertilizer Technology (2+1) 2011 Even VIII 10. ENS 101 Principles of Environmental Sciences (1+1) 2017 Even II 11. ENS 301 Environmental Pollution and Management (1+1) 2017 Even VI 12. ENS 401 Climate Change and Disaster Management (2+0) 2017 Even VIII 13. EXP 301 Experiential Learning on "On farm advisory services for soil health, water quality and plant nutrition" (0+5) 2011 Even VI 14. EXP 401 Experiential Learning II- Technology (0+5) 2011 Even VIII 15. APW 401 Project Work (0+4) 2011 Odd & Even VII & VIII Undergraduate programme (B.Sc. (Hons.) F&D) S.No. Course No. Course Title Syllabus Semester 1. NST 301 Fundamentals and Applications of Nanotechnology (1+0) 2015 Even VI 2. ENS 101 Principles of Environmental Sciences (1+1) 2017 Even II 3. ENS 201 Environmental Studies and Disaster Management (2+1) 2017 odd III 4. ENS 341 Environmental Microbiology and Occupational Health Hazard (2+1) 2015 Even VI 5. ENS 451 Pollution Control in Food Industries (2+1) 2015 Even VIII The courses are being offered to B.Sc. Hons. (Agriculture), B.Sc. Hons.(Horticulture), B.Tech. (Agri. Eng.), B.Tech. (Biotech), B.Tech. (AIT) and B.S. (ABM) programmes. The courses offered are listed below. UG courses - Even Semester S.No Course No. Name of the Course Credit hours Degree Programme 1. SAC 101 Fundamentals of Soil Science 2+1 B.S. (ABM) B.Tech. (AIT) & B.Tech. (Biotech) 2. SAC 102 Irrigation water quality Assessment 0+1 B.Sc. Hons. (Horti.) 3. SAC 202 Problematic Soils and their Management 2+0 B.Sc. Hons. (Agri.) 4. SAC 451 Designer fertiliser Production 1+1 (Opt.course) B.Sc. Hons. (Agri.) 5. SAC 452 Rejuvenation of deteriorated lands 1+1 (Opt.course) B.Sc. Hons. (Agri.) 6. SAC 453 Soilless Crop Production 1+1 (Opt.course) B.Sc. Hons. (Agri.) 7. SAC 454 Instrumental Methods of Analysis 1+1 (Opt.course) B.Sc. Hons. (Agri.) 8. SAC 455 Crop and Pesticide Chemistry 1+1 (Opt.course) B.Sc. Hons. (Agri.) UG courses - Odd Semester S.No Course No. Name of the Course Credit hours Degree Programme 1. SAC 101 Fundamentals of Soil Science 2+1 B.Sc.Hons.(Agri.) 2. SAC 101 Fundamentals of Soil Science 2+1 B.Sc.Hons.(Horti.) 3. SAC 111 Principles of Soil Science 2+1 B.Tech.( Agri. Eng.) 4. SAC 121 Engineering Chemistry 1+1 B.Tech.( Agri. Eng.) 5. SAC 201 Soil Resource Inventory 1+1 B.Sc.Hons.(Agri.) 6. SAC 301 Manures, Fertilizers and Soil Fertility Management 2+1 B.Sc. Hons.(Agri.) - 2017 Syllabus 7. SAC 301 Soil Fertility, Fertilizers and Manures 2+1 B.Sc. (Horti.) - 2015 Syllabus Homeicar ecourse pdf downloadFundamentals of Soil Science ICAR E course Free PDF Book Download e krishi shiksha Fundamentals of Soil Science ICAR E course Free PDF Book Download e krishi shiksha Fundamentals of Soil Science ICAR E course PDF Book was developed by ICAR e Krishi Shiksha and TNAU. You Can easily Download it from our website IARI Toppers by clicking on the below given link We have provided the latest version of Fundamentals of Soil Science ICAR Ecourse PDF Book but some mistakes can be found. If you found any mistake, error in this PDF book than feel free to comment below. Theory: Composition of earth's crust. Soil as a natural body-major components. Eluviation and illuviation, formation of various soils. Problem soils: salt soils, permeable, flooded, sandy soil. Soil properties-Physical parameters; texture- definition, methods of textural analysis. Stock's law-assumption and limitations, textural classes, use of textural triangle; absolute specific gravity -definition, apparent specific gravity/bulkdensity- factors influencing, field bulk density. Relation between BD (bulk density) AD. -practical problems. Pore space - definition, significance. Colour variable - value,hue and chroma.Munsell colour chart,factors influencing-parent material, soil moisture, organic matter. Soil structure-definition, classification, clay prism like structure, factors influencing genesis of soil structure. Soil consistency, plasticity, Attenberg's constant. Soil air, air capacity, composition, factors influencing amount of air space, soil air renewal. Soil temperature-sources and distribution of heat, factors influencing measurement.Chemical properties- soil colloids; organic - humus ; inorganic- secondary silicate clay, hydrous oxide. Ion exchange - cation and anion importance. Soil organic matter decomposition; pH and nutrient availability, soil buffering capacity. Soil water - forms-hygroscopic, capillary and gravitational, soil moisture constants, hygroscopic coefficient, wilting point, field capacity, moisture equivalent, maximum water holding capacity, energy concepts, pF scale, measurment, gravimetric- electric and tensiometer methods, pressure plate and pressure membrane appratus-Neutron probe- soil water movement. Classification- aerial photography- satellite of soil features-their interpretation. Soil orders; land capability classification; soils of different eco-system and their properties. Management of problem soils- envionmental quality. Irrigation water quality, determination of quality parameters, empirical equation, management of irrigation water. Practicals: Collection and preparation of soil samples. Study of soil profile. Determenation of soil colour. Estimation of moisture, EC, pH and bulk density. Textural analysis of soil by Robinson's pipette method. Chemical analysis of soil- Fe2O3,P,K,Ca, Mg and S. Total N. Organic carbon and cation exchange capacity. Download PDF Download More ICAR E Course PDF's - Show All E course List Watch Video Lecture of Fundamentals of Soil Science ICAR E course Free PDF Book Download: Disclaimer - The following video is the sole property of their respective owner / you tube channel and they owns all the ownership rights. We have embedded it here under fair uses for educational purposes only.

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