



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore – 6.

DEPARTMENT OF BOTANY

LESSON PLAN

2020-2021

AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	1
Course	Optional Allied Botany I
Course Code	UBBTA20
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr.S.Isabella Rosaline

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	12	I	Algae and Fungi General characters of algae, Structure, reproduction and life cycle of <i>Nostoc</i> and <i>Sargassum</i> , Economic importance of algae. General characters of fungi. Structure, reproduction and life cycle of <i>Yeast</i> and <i>Agaricus</i> , Economic importance of fungi.	Google classroom Google meet Powerpoint presentation Videos	✓ Ancillary Botany- Rao K.N., Krishnamurthy, K.V and Rao. G. S(1979) ✓ Botany for Degree students, Fungi- Vasishta, P.C (2006) ✓ e- content	Quiz Assignment
3	12	II	General characters of Bacteria, Structure and reproduction of <i>E.coli</i> . Economic importance of Bacteria., General characters of Virus, Structure of TMV and Bacteriophage, Structure of Corona	Google classroom Google meet Powerpoint presentation Videos	✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content	Quiz Assignment

			Virus			
3	12	III	General characters of Bryophytes, Structure and life cycle of <i>Funaria</i> , General characters of Pteriophytes, Structure and life cycle of <i>Lycopodium</i> , General characters of Gymnosperms, Structure and life cycle of <i>Cycas</i>	Google classroom Google meet Powerpoint presentation Videos	<ul style="list-style-type: none"> ✓ Botany for Degree students, Pteridophytes-Vasishta, P.C(2006) ✓ Botany for Degree students, Gymnosperms-Vasishta, P.C(2006) ✓ e-content 	Quiz Assignment
3	12	IV	Ultra structure of Prokaryotic and Eukaryotic cell, Cell organelles- Ultra structure and functions of Chloroplast, Mitochondria and Nucleus, Cell division- mitosis and meiosis, Genetics-Mendelism- monohybrid and dihybrid cross, Back cross, Law of dominance, Law of segregation, Incomplete dominance, Law of independent assortment.	Google classroom Google meet Powerpoint presentation Videos	<ul style="list-style-type: none"> ✓ Plant Physiology- Srivastava (H.N), Pradeep publications(1986) ✓ e-content 	Quiz Assignment
3	12	V	Ecosystem, structure and function, food chain, food web, Ecological pyramid, Adaptation of plants- Hydrophytes, Xerophytes, Symptoms, causative organism and control measures of Tobacco mosaic diseases, Symptoms, causative organism and control measures of	Google classroom Google meet Powerpoint presentation Videos	<ul style="list-style-type: none"> ✓ Plant Ecology- Shukla and Chandel (1986) ✓ e-content 	Quiz Assignment

		Citrus canker, Symptoms, causative organism and control measures of Tikka disease of groundnut, Biopesticides, Biofertilizers in agriculture (Azolla and BGA), Mycorrhiza (BT)			
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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	2
Course	Allied Botany II
Course Code	UBBTB20
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr.S.Isabella Rosaline

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	12	I	Bentham and Hooker's system of classification, Nomenclature, Study of characters and economic importance of the family Asclepiadaceae, Amaranthaceae, Liliaceae.	Google classroom Google meet Power point presentation Videos	✓ Pandey, B.P - Taxonomy of Angiosperms for University students, 2009 ✓ e- content	Quiz Assignment
3	12	II	Tissues- Meristematic and Permanent tissue, Primary structure of dicot stem , Primary structure of monocot stem	Google classroom Google meet Powerpoint presentation Videos	✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content	Quiz Assignment

3	12	III	Structure of mature anther, Structure of ovule, Types of ovules, Structure of embryo sac	Google classroom Google meet Power point presentation Videos	✓ Pandey, B.P. - Embryology of Angiosperms, 1995	Quiz Assignment
3	12	IV	Absorption of water, Transpiration, Photosynthesis - light reaction, Calvin cycle,	Google classroom Google meet Power point presentation Videos	✓ Plant Physiology- Srivastava (H.N), Pradeep publications(1986) ✓ e-content	Quiz Assignment
3	12	V	Tissue Culture- <i>In vitro</i> culture method, Plant tissue culture and its applications	Google classroom Google meet Power point presentation Videos	✓ - Text book of Horticulture , 1991 ✓ e-content	Quiz Assignment

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	2
Course	Allied Botany II
Course Code	UAPBB17
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr.S.Isabella Rosaline

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	12	I	Bentham and Hooker's system of classification, Nomenclature, Study of characters and economic importance of the family Asclepiadaceae, Euphorbiaceae Liliaceae.	Google classroom Google meet Power point presentation Videos	✓ Pandey, B.P - Taxonomy of Angiosperms for University students, 2009 ✓ e- content	Quiz Assignment
3	12	II	Tissues- Meristematic and Permanent tissue, Primary structure of dicot stem , Primary structure of monocot stem	Google classroom Google meet Power point presentation Videos	✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content	Quiz Assignment
3	12	III	Structure of mature anther, Structure of ovule, Types of ovules, Structure of embryo sac	Google classroom Google meet Power point presentation Videos	✓ Pandey, B.P. - Embryology of Angiosperms, 1995	Quiz Assignment

3	12	IV	Ultra structure of Prokaryotic and Eukaryotic cell	Google classroom Google meet Power point presentation Videos	✓ e-content	Quiz Assignment
3	12	V	Tissue Culture- <i>In vitro</i> culture method, Plant tissue culture and its applications	Google classroom Google meet Power point presentation Videos	✓ - Text book of Horticulture , 1991 ✓ e-content	Quiz Assignment

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6
LESSON PLAN FOR THE YEAR 2020-2021

Semester	3
Course	Allied Botany I
Course Code	UAPBA17
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr.S.Isabella Rosaline

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here)
3	12	I	Algae and Fungi: General Characteristic features and economic importance of Algae and Fungi- Structure and life cycle of <i>Oscillatoria</i> , <i>Gracillaria</i> , <i>Albugo</i> , <i>Yeast</i> and <i>Agaricus</i>	Google classroom Google meet Powerpoint presentation Videos	<ul style="list-style-type: none"> ✓ Ancillary Botany- Rao K.N., Krishnamurthy, K.V and Rao. G. S(1979) ✓ Botany for Degree students, Fungi- Vasishta,P.C (2006) ✓ e- content 	Quiz Assignment test
3	12	II	Bryophytes, Pteridophytes and Gymnosperms: General characters and economic importance of Bryophyta, Pteridophyta and Gymnosperms. Structure, reproduction and Life cycle of	Google classroom Google meet Powerpoint presentation Videos	<ul style="list-style-type: none"> ✓ Botany for Degree students, Pteridophytes- Vasishta,P.C(2006) ✓ Botany for Degree students,Gymnospermss- 	Quiz Assignment Test

			Funaria, Lycopodium and Cycas.		Vasishta,P.C(2006) ✓ e- content	
3	12	III	Bacteria, Viruses and Plant Pathology: General characters of bacteria and virus, structure and reproduction of E.coli, economic importance of bacteria. Crop management- symptoms and control measures of Tobacco mosaic disease, Citrus canker and Tikka disease of groundnut. Biopesticides (BT), Biofertilizers in agriculture(Azolla and Blue green algae), Mycorrhizae	Google classroom Google meet Powerpoint presentation Videos	✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content	Quiz Assignment Test
3	12	IV	Ecology: Ecosystem- definition- basic concepts of ecosystem, examples of ecosystem- fresh water ecosystem. Energy flow in an ecosystem, trophic level, food chain and food web, environmental pollution: Major types of pollution- air pollution, water pollution and soil pollution, causes and control measures. Morphological and anatomical adaptations in hydrophytes and xerophytes.	Google classroom Google meet Powerpoint presentation Videos	✓ Plant Physiology- Srivastava (H.N), Pradeep publications(1986) ✓ e-content	Quiz Assignment Test
3	12	V	Plant Physiology: Absorption of water- Physiological role of micro and macro elements- their deficiency symptoms, Photosynthesis- light reaction-calvin cycle. Respiration- Glycolysis, Kreb's cycle, Transpiration, Growth hormones- auxins,	Google classroom Google meet Powerpoint presentation Videos	✓ Plant Ecology- Shukla and Chandel (1986) ✓ e-content	Quiz Assignment Test

			<p>gibberellins and their applications- Seed dormancy and Seed germination (factors affecting). Stress physiology- General account.</p>			
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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	1
Course	Optional Allied Botany I
Course Code	UBBTA20 /UABTA20
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	12	I	Algae and Fungi General characters of algae, Structure, reproduction and life cycle of <i>Nostoc</i> and <i>Sargassum</i> , Economic importance of algae, General characters of fungi. Structure, reproduction and life cycle of <i>Yeast</i> and <i>Agaricus</i> , Economic importance of fungi.	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Ancillary Botany- Rao K.N., Krishnamurthy, K.V and Rao. G. S(1979) ✓ Botany for Degree students, Fungi- Vasishta,P.C (2006) ✓ e- content 	Quiz Assignment
3	12	II	General characters of Bacteria, Structure and reproduction of <i>E.coli</i> . Economic importance of Bacteria., General characters of Virus, Structure of TMV and Bacteriophage, Structure of Corona Virus	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content 	Quiz Assignment

3	12	III	General characters of Bryophytes, Structure and life cycle of <i>Funaria</i> ,	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Botany for Degree students, Vasishtha, P.C(2006) ✓ e- content 	Quiz Assignment
3	12	IV	Ultra structure of Prokaryotic and Eukaryotic cell, Cell organelles- Ultra structure and functions of Chloroplast, Mitochondria and Nucleus, Cell division- mitosis and meiosis,.	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Cell biology ✓ e-content 	Quiz Assignment
3	12	V	Symptoms, causative organism and control measures of Tobacco mosaic diseases, Symptoms, causative organism and control measures of Citrus canker, Symptoms, causative organism and control measures of Tikka disease of groundnut,	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Plant Pathology ✓ e-content 	Quiz Assignment

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	2
Course	Optional Allied Botany II
Course Code	UBBTB20
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Unit s	Topics	Teaching Methodolog y & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here)
3	12	I	Bentham and Hooker's system of classification nomenclature, Study of characters and economic importance of the family Salpiniaceae, Rubiaceae,	Google classroom Google meet Powerpoint presentation Videos	✓ Pandey, B.P - Taxonomy of Angiosperms for University students,2009 ✓ e- content	Quiz Assignment
3	12	II	Primary structure of dicot root and monocot root, Primary structure of dicot leaf Primary structure of monocot leaf	Google classroom Google meet Powerpoint presentation Videos	✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content	Quiz Assignment

3	12	III	Structure of pollen grain , Structure of dicot embryo, Parthenocarpy	Google classroom Google meet Powerpoint presentation Videos	✓ Pandey, B.P. - Embryology of Angiosperms, 1995	Quiz Assignment
3	12	IV	Respiration-Glycolysis, Fermentation, Krebs cycle,Electron transport system, Growth hormones- auxins, gibberellins and application	Google classroom Google meet Powerpoint presentation Videos	✓ Plant Physiology- Srivastava (H.N), Pradeep publications(198 6) ✓ e-content	Quiz Assignment
3	12	V	Vegetative Propagation, Horticulture methods – Cutting – Stem Layering- ground layering and air layering, Grafting- cleft, bark grafting, Terrace garden, Kitchen garden	Google classroom Google meet Powerpoint presentation Videos	✓ - Text book of Horticulture , 1991 ✓ e-content	Quiz Assignment

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6

LESSON PLAN FOR THE YEAR 2020-2021

Semester	3
Course	Allied Botany I
Course Code	UAPBA17
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr. T. Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	12	I	Algae and Fungi: General Characteristic features and economic importance of Algae and Fungi- Structure and life cycle of <i>Oscillatoria</i> , <i>Gracillaria</i> , <i>Albugo</i> , <i>Yeast</i> and <i>Agaricus</i>	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Ancillary Botany- Rao K.N., Krishnamurthy, K.V and Rao. G. S(1979) ✓ Botany for Degree students, Fungi- Vasishta, P.C (2006) ✓ e- content 	Quiz Assignment test
3	12	II	Bryophytes, Pteridophytes and Gymnosperms: General characters and economic importance of Bryophyta, .	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Botany for Degree students, Pteridophytes- Vasishta, P.C(2006) ✓ Botany for Degree students, Gymnosperms- 	Quiz Assignment Test

					Vasishta,P.C(2006) ✓ e- content	
3	12	III	Bacteria, Viruses and Plant Pathology: General characters of bacteria and virus, structure and reproduction of E.coli, economic importance of bacteria. Crop management- symptoms and control measures of Tobacco mosaic disease, Citrus canker and Tikka disease of groundnut.	Google classroom Google meet Power point presentation Videos	✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content	Quiz Assignment Test
3	12	IV	environmental pollution: Major types of pollution- air pollution, water pollution and soil pollution, causes and control measures. Morphological and anatomical adaptations in hydrophytes and xerophytes.	Google classroom Google meet Power point presentation Videos	✓ Plant Physiology- Srivastava (H.N), Pradeep publications(1986) ✓ e-content	Quiz Assignment Test
3	12	V	Growth hormones- auxins, gibberellins and their applications- Seed dormancy and Seed germination (factors affecting). Stress physiology- General account.	Google classroom Google meet Power point presentation Videos	✓ Plant Ecology- Shukla and Chandel (1986) ✓ e-content	Quiz Assignment Test

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	2
Course	Allied Botany II
Course Code	UAPBB17
Hours	4+2 Practical
Credits	3
Total Hours	60
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodolog y & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated her
3	12	II	Bentham and Hooker's system of classification Nomenclature, Study of characters and economic importance of the family Caesalpiniaceae, Rubiaceae,	Google classroom Google meet Power point presentation Videos	✓ Pandey, B.P - Taxonomy of Angiosperms for University students, 2009 ✓ e- content	Quiz Assignment
3	12	JIP	Primary structure of dicot root and monocot root, Primary structure of dicot leaf Primary structure of monocot leaf	Google classroom Google meet Power point presentation Videos	✓ College botany Volume II- S.Chand and co. New Delhi (1998) ✓ e- content	Quiz Assignment
3	12	III	Structure of pollen grain , Structure of dicot embryo, Parthenocarpy	Google classroom Google meet Power point presentation Videos	✓ Pandey, B.P. - Embryology of Angiosperms, 1995	Quiz Assignment

3	12	IV	Cell organelles- Ultra structure and functions of Chloroplast, Mitochondria and Nucleus, Cell division mitosis and meiosis	Google classroom Google meet Power point presentation Videos	✓ e-content	Quiz Assignment
3	12	V	Recombinant DNA technology	Google classroom Google meet Power point presentation Videos	✓ Biotechnology - Dubey ✓ e-content	Quiz Assignment

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	1
Course	HERBAL THERAPY AND COSMETOLOGY
Course Code	USBTA120
Hours	2
Credits	2
Total Hours	30
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	6	I	Herbs – Definition, division, distribution, Elementary knowledge of herbs, Importance of medicinal plants, Role of medicinal plants in human health care, Plants in folk religion – <i>Aegle marmelos</i> , <i>Ficus benghalensis</i> , <i>Curcuma domestica</i> and <i>Sesamum indicum</i> .	Google classroom Google meet Power point presentation Videos	✓ Kumar, N.C. - An Introduction to Medical Botany, Emkay Publications, New Delhi. 1993 ✓ e- content	Quiz Assignment Test
3	6	II	Indian system of medicines – AYUSH - Ayurveda, Unani, Siddha and Homeopathy, Therapeutic values of Naturopathy, Traditional knowledge and utility of some medicinal plants in Tamil Nadu - <i>Solanum</i>	Google classroom Google meet Power point presentation Videos	✓ Kapoor L.D - Hand book of Ayurvedic medicinal plants, CRC press Anes books, New Delhi, 2005 ✓ e- content	Quiz Assignment

			<i>trilobatum, Cardiospermum halicacabum, Vitex negundo, Adathoda vasica, Azadirachta indica and Eclipta alba</i>			
3	6	III	Herbal care for facial skin, Formulation of face pack for dry, Formulation of face pack for oily skin, Formulation of face pack for normal skin, Herbal remedy for skin disorders - pimple, acne, Herbal remedy for skin disorders - boiles, black heads and tans.	Google classroom Google meet Power point presentation Videos	✓ Sivarajan, V.V and Balasubramaniyan, I - Ayurvedic Drugs and their Plant Sources. Oxford and IBH, New Delhi, 1994. ✓ e- content	Quiz Assignment Test
3	6	IV	Herbal care for hair, Formulation of hair oil, Formulation of hair tonics, Herbal remedy for dandruff, Herbal remedy for Premature graying, Herbal remedy for hairloss.	Google classroom Google meet Power point presentation Videos	✓ Ambaster - Wealth of India. CSIR Publications, New Delhi, 1996. ✓ e-content	Quiz Assignment
3	6	V	Herbal cosmetics - Meaning, advantage and disadvantage, Preparation of Herbal shampoo, Herbal tooth paste , Herbal soap, Role of herbs in skin care - Tulasi and Aloe vera, Role of herbs in hair care - Henna and Coconut	Google classroom Google meet Power point presentation Videos	✓ Herbal Cosmetics H.Pande, Asia Pacific Business press, New Delhi. ✓ e-content	Quiz Assignment Test

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6.

LESSON PLAN FOR THE YEAR 2020-2021

Semester	2
Course	HERBAL THERAPY AND COSMETOLOGY
Course Code	USBTA220
Hours	2
Credits	2
Total Hours	30
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	6	I	Herbs – Definition, division, distribution, Elementary knowledge of herbs, Importance of medicinal plants, Role of medicinal plants in human health care, Plants in folk religion – <i>Aegle marmelos</i> , <i>Ficus benghalensis</i> , <i>Curcuma domestica</i> and <i>Sesamum indicum</i> .	Google classroom Google meet Power point presentation Videos	✓ Kumar, N.C. - An Introduction to Medical Botany, Emkay Publications, New Delhi. 1993 ✓ e- content	Quiz Assignment Test
3	6	II	Indian system of medicines – AYUSH - Ayurveda, Unani, Siddha and Homeopathy, Therapeutic values of Naturopathy, Traditional knowledge and utility of some medicinal plants in Tamil Nadu - <i>Solanum</i>	Google classroom Google meet Power point presentation Videos	✓ Kapoor L.D - Hand book of Ayurvedic medicinal plants, CRC press Anes books, New Delhi, 2005 ✓ e- content	Quiz Assignment

			<i>trilobatum, Cardiospermum halicacabum, Vitex negundo, Adathoda vasica, Azadirachta indica and Eclipta alba</i>			
3	6	III	Herbal care for facial skin, Formulation of face pack for dry, Formulation of face pack for oily skin, Formulation of face pack for normal skin, Herbal remedy for skin disorders - pimple, acne, Herbal remedy for skin disorders - boiles, black heads and tans.	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Sivarajan, V.V and Balasubramanian, I - Ayurvedic Drugs and their Plant Sources. Oxford and IBH, New Delhi, 1994. ✓ e- content 	Quiz Assignment Test
3	6	IV	Herbal care for hair, Formulation of hair oil, Formulation of hair tonics, Herbal remedy for dandruff, Herbal remedy for Premature graying, Herbal remedy for hairloss.	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Ambaster - Wealth of India. CSIR Publications, New Delhi, 1996. ✓ e-content 	Quiz Assignment
3	6	V	Herbal cosmetics - Meaning, advantage and disadvantage, Preparation of Herbal shampoo, Herbal tooth paste , Herbal soap, Role of herbs in skin care - Tulasi and Aloevera, Role of herbs in hair care - Henna and Coconut	Google classroom Google meet Power point presentation Videos	<ul style="list-style-type: none"> ✓ Herbal Cosmetics H.Pande, Asia Pacific Business press, New Delhi. ✓ e-content 	Quiz Assignment Test

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6

LESSON PLAN FOR THE YEAR 2020-2021

Semester	3
Course	Horticulture
Course Code	USPBC315
Hours	2
Credits	2
Total Hours	30
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	6	I	Introduction to Horticulture, Divisions, Requirements, climate, soil, irrigation, and nutrition, Cultivation of economically important plants, Rose, Mango	Google classroom Google meet Power point presentation Videos	✓ . Kumar. N - Introduction to Horticulture. Rajalakshmi publication Nagercoil, 1986 ✓ e- content	Quiz Assignment
3	6	II	Plant Propagation, cutting, layering, grafting, budding and seeds, elementary knowledge of Micropropagation and its significance.	Google classroom Google meet Power point presentation Videos	✓ Subbha Roa, N.S Biofertilizers in Agriculture and Forestry. India Book House Limited. 1997 ✓ e- content	Quiz Assignment
3	6	III	Indoor gardening, potted plants, hydroponics, bonsai, flower arrangement, cut flowers, displays, bouquets and wreaths	Google classroom Google meet Power point presentation Videos	✓ Trivedy . P.P - Home gardening. ECA Publication, New Delhi.	Quiz Assignment

					1987 ✓ e- content	
3	6	IV	Outdoor gardening, landscaping, rockery, avenue, terrace gardening, lawn making	Google classroom Google meet Power point presentation Videos	✓ Arora, J. S. - Introductory Ornamental Horticulture. Kalyani Publishers, New Delhi, 1992 ✓ e-content	Quiz Assignment
3	6	V	Kitchen gardening, plan and principles, classification of vegetables and fruits	Google classroom Google meet Power point presentation Videos	✓ Rao, K. M. - Text Book of Horticulture. Macmillan India Ltd., New Delhi, 2000 ✓ e-content	Quiz Assignment Test

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6

LESSON PLAN FOR THE YEAR 2020-2021

Semester	4
Course	Horticulture
Course Code	USPBC415
Hours	2
Credits	2
Total Hours	30
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	6	I	Introduction to Horticulture, Divisions, Requirements, climate, soil, irrigation, and nutrition, Cultivation of economically important plants, Rose, Mango	Google classroom Google meet Power point presentation Videos	✓ . Kumar. N - Introduction to Horticulture. Rajalakshmi publication Nagercoil, 1986 ✓ e- content	Quiz Assignment
3	6	II	Plant Propagation, cutting, layering, grafting, budding and seeds, elementary knowledge of Micropropagation and its significance.	Google classroom Google meet Power point presentation Videos	✓ Subbha Roa, N.S - Biofertilizers in Agriculture and Forestry. India Book House Limited. 1997 ✓ e- content	Quiz -Assignment
3	6	III	Indoor gardening, potted plants, hydroponics, bonsai, flower arrangement, cut flowers, displays, bouquets and wreaths	Google classroom Google meet Power point presentation Videos	✓ Trivedy . P.P - Home gardening. ECA Publication, New Delhi,	Quiz Assignment

					1987 ✓ e- content	
3	6	IV	Outdoor gardening, landscaping, rockery, avenue, terrace gardening, lawn making	Google classroom Google meet Power point presentation Videos	✓ Arora, J. S. - Introductory Ornamental Horticulture. Kalyani Publishers, New Delhi, 1992 ✓ e-content	Quiz Assignment
3	6	V	Kitchen gardening, plan and principles, classification of vegetables and fruits	Google classroom Google meet Power point presentation Videos	✓ Rao, K. M. - Text Book of Horticulture. Macmillan India Ltd., New Delhi, 2000 ✓ e-content	Quiz Assignment Test

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6

LESSON PLAN FOR THE YEAR 2020-2021

Semester	5
Course	EDIBLE MUSHROOM CULTIVATION
Course Code	UGPBA515
Hours	3
Credits	4
Total Hours	45
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
3	9	I	Biology types- <i>Agaricus</i> sp., <i>Calocybe</i> sp., <i>Volvariella</i> sp., <i>Pleurotus</i> sp. Scope of edible mushroom cultivation in India.	Google classroom Google meet Power point presentation Videos	✓ Marimuthu, T. - Oyster Mushroom. Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore, 1991. ✓ e- content	Quiz Assignment Test
3	9	II	Cultivation, infrastructure, mushroom unit, preparation of spawn and bed, requirements, substrates, containers and instruments	Google classroom Google meet Power point presentation Videos	✓ Pathak, V.N. and Yadav, N. - Mushroom Production and Processing Technology. Agrobios, Jodhpur, 1998. ✓ e- content	Quiz Assignment Test
3	9	III	Nutritional value, vitamins and amino acids,	Google classroom Google meet	✓ Kaul, T.N. - Introduction to	Quiz Assignment

			statistical data of contents, medicinal properties, diseases cured and prevented by the consumption of edible mushrooms	Power point presentation Videos	mushroom science, Oxford & IBH Co., Pvt. Ltd., New Delhi, 1999. ✓ e- content	Test
3	9	IV	Methods to store edible mushroom, long and short, soups, cutlets, samosa, pickles, curry, chips, bread, biriyani, Manchurian and pulao	Google classroom Google meet Power point presentation Videos	✓ Bahl, N. - Handbook on mushrooms. Oxford & IBH Publishing Co., Pvt. Ltd., 2000. ✓ e-content	Quiz Assignment, Video preparation Test
3	9	V	Establishment of mushroom unit, plans and procedure, factors influencing mushroom cultivation, role of THIC and DIC in promoting edible mushroom cultivation.	Google classroom Google meet Power point presentation Videos	✓ Philip G. Miles, Shu-Ting Chang - Mushroom biology, World Scientific, 1997. ✓ e-content	Quiz Assignment Test

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AUXILIUM COLLEGE (AUTONOMOUS) VELLORE – 6

LESSON PLAN FOR THE YEAR 2020-2021

Semester	6
Course	EDIBLE MUSHROOM CULTIVATION
Course Code	UGPBA615
Hours	3
Credits	4
Total Hours	45
Max Marks	100
Course Instructor/ Coordinator	Dr.T.Anitha

Week / Date	No of Hours	Units	Topics	Teaching Methodology & Student Centric Methods *	Learning Resources *	Method of Evaluation (Student Centric Methods * can be incorporated here
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