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ST ALOYSIUS COLLEGE
(Autonomous)

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Re-accredited by NAAC with 'A' Grade - CGPA 3.62
Ranked 94 in College Category – 2018 Under NIRF, MHRD, Government of India
Recognised by UGC as "College with Potential for Excellence"
College with 'STAR STATUS' conferred by DBT, Government of India

Date: 16-02-2021

NOTIFICATION

Sub: Syllabus of **B.Voc. in Renewable Energy Management**
Course under Credit Based Semester System.

Ref: 1. Academic Council decision dated 12-12-2020
2. Office Notification dated 16-02-2021

Pursuant to the Notification cited under reference (2) above, the Syllabus of **B.Voc. in Renewable Energy Management** Course under Credit Based Semester System is hereby notified for implementation with effect from the academic year **2021-22**.

PRINCIPAL

REGISTRAR

To:

1. The Chairman/Dean/HOD.
2. The Registrar
3. B.Voc. Office
4. Library

**Structure of syllabus RENEWABLE ENERGY MANAGEMENT
B.Vocational (Diploma)- 1 Year**

Semester-I	Category/ Mode	Subject Code	Subject	Theor y Hours / Week	Duratio n of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credit
General Education / General Component	Language -1:	BV 171.1	Communication Skill-1	2	3	20	80	100	2
	Language - 2:	BV 172.1	Kannada/Hindi	2	3	20	80	100	2
	Core paper- 1 Theory	BV 173.1	Fundamentals of Physics	3	3	20	80	100	3
	Core paper- 2 Theory	BV 174.1	Basic Electronics	3	3	20	80	100	3
	Elective Foundation	BV 175.1	Environmental Science & Value Education	2	2	10	40	50	2
Skill Component	Practical-1	BV 176.1P	Fundamentals of Physics- Lab	6	3	30	120	150	6
	Practical-2	BV 177.1P	Basic Electronic slab	6	3	30	120	150	6
	Project/ Internship	BV 178.1P	Project-1	6		30 Viva	120	150	6
Total				30		180	720	900	30

Semester-II	Category/ Mode	Subject Code	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credit
General Education / General Component	Language - 1:	BV 171.2	Communication Skill	2	3	20	80	100	2
	Language - 2:	BV 172.2	Kannada/Hindi	2	3	20	80	100	2
	Core paper- 1 Theory	BV 173.2	Photometry, Heat and Thermodynamics	3	3	20	80	100	3
	Core paper- 2 Theory	BV 174.2	Fundamentals of solar Energy & Photo Voltaic Technology	3	3	20	80	100	3
	Elective Foundation	BV 175.2	Fundamental of Indian Constitution	2	2	10	40	50	2

Skill Component	Practical-1	BV 176.2P	Photometry, Heat and Thermodynamics - Lab	6	3	30	120	150	6
	Practical-2	BV 177.2P	Fundamentals of solar Energy & Photo Voltaic Technology - Lab	6	3	30	120	150	6
	Project/ Internship	BV 178.2P	Project-2	6		30 Viva	120	150	6
Total				30		180	720	900	30

B.Vocational (Advanced Diploma)-2 Year

Semester-III	Category/ Mode	Subject Code	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credit
General Education / General Component	Language - 1:	BV 171.3	Business Communication	2	3	20	80	100	2
	Language - 2:	BV 172.3	Kannada/Hindi (Skill Development)	2	3	20	80	100	2
	Core paper-1 Theory	BV 173.3	Basics of Computer Application	3	3	20	80	100	3
	Core paper-2 Theory	BV 174.3	Basics of Electricity	3	3	20	80	100	3
	Elective Foundation	BV 175.3	Fundamental of Business Law	2	2	10	40	50	2
Skill Component	Practical-1	BV 176.3P	Basic of Computer Application-Lab	6	3	30	120	150	6
	Practical-2	BV 177.3P	Basics of Electricity-Lab	6	3	30	120	150	6
	Project/ Internship	BV 178.3P	Project-3	6		30 Viva	120	150	6
Total				30		180	720	900	30

B.Vocational (Advanced Diploma)- 2 Year

Semester-IV	Category/ Mode	Subject Code	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credit

General Education / General Component	Language -1:	BV 171.4	English	2	3	20	80	100	2
	Language - 2:	BV 172.4	Kannada/Hindi	2	3	20	80	100	2
	Core paper- 1 Theory	BV 173.4	Storage Devices and Invertors	3	3	20	80	100	3
	Core paper- 2 Theory	BV 174.4	Fluid Mechanics	3	3	20	80	100	3
	Elective Foundation	BV 175.4	Gender Equity & Value Education	2	2	10	40	50	2
Skill Component	Practical-1	BV 176.4P	Storage Devices and Invertors-Lab	6	3	30	120	150	6
	Practical-2	BV 177.4P	Fluid Mechanics-Lab	6	3	30	120	150	6
	Project/ Internship	BV 178.4P	Project-4	6		30 Viva	120	150	6
Total				30		180	720	900	30

B. Vocational (Degree)- 3 Year

Semester-V	Category/ Mode	Subject Code	Subject	Theory Hours/ Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credit
General Education / General Component	Core paper- 1 Theory	BV 171.5	Entrepreneurship	3	3	20	80	100	3
	Core paper- 2 Theory	BV 172.5	Bio-mass Energy	3	3	20	80	100	3
	Core paper- 3 Theory	BV 173.5	Geo-Thermal Energy	3	3	20	80	100	3
	Core paper- 4 Theory	BV 174.5	Marketing management	3	3	20	80	100	3
Skill Component	Practical-1	BV 175.5	Bio-mass Energy-Lab	6	3	30	120	150	6
	Practical-2	BV 176.5P	Geo-Thermal Energy-Lab	6	3	30	120	150	6
	Project/ Internship	BV 177.5P	Project-5	6		30 Viva	120	150	6
Total				30		180	720	900	30

B. Vocational (Degree)- 3 Year

Semester-VI	Category/	Subject	Subject	Theory	Duratio	Marks & Credits
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	Mode	Code		Hours/ Week	n of Exams (Hrs)	IA	Exam	Total	Credit
General Education / General Component	Core paper- 1 Theory	BV 171.6	Taxation Law	3	3	20	80	100	3
	Core paper- 2 Theory	BV 172.6	Legal Aspects of Business	3	3	20	80	100	3
	Core paper- 3 Theory	BV 173.6	Installation & Maintenance of Renewable Energy Devices	3	3	20	80	100	3
	Core paper- 4 Theory	BV 174.6	Materials & Processes in manufacturing	3	3	20	80	100	3
Skill Component	Practical-1	BV 175.6	Installation & Maintenance of Renewable Energy Devices-Lab	6	3	30	120	150	6
	Practical-2	BV 176.6P	Materials & Processes in manufacturing-Lab	6	3	30	120	150	6
	Project/ Internship	BV 177.6P	Project-6	6		30 Viva	120	150	6
Total				30		180	720	900	30