

SAVITRIBAI PHULE PUNE UNIVERSITY

EQUIVALENCE OF COURSES

IN

B.Sc. ELECTRONIC SCIENCE

BOARD OF STUDIES, ELECTRONIC SCIENCE

UNDER

FACULTY OF SCIENCE AND TECHNOLOGY

F. Y. B. Sc. Electronic Science

S. Y. B. Sc. Electronic Science

T. Y. B. Sc. Electronic Science

F. Y. B. Sc. Electronic Science

Equivalence of Courses and Transitory Provision

(2013-14 pattern to 2019-20 pattern)

2013 Pattern			2019 Pattern		
	Course code	Title of course/paper	Semester	Course code	Title of course/paper
Yearly Pattern	EL 101	Principles of Analog Electronics	I and II	EL 111 and EL 122	Basics of Applied Electronics Analog and Digital device Applications
	EL102	Principles of Digital Electronics		EL 121 and EL 112	Fundamentals of Digital Electronics Electronic Devices and Circuits
	EL 103	Practical Course		EL 113 and EL 123	Electronics Lab IA Electronics Lab IB

Equivalence of mark system

	2013 Pattern			2019 Pattern		
	Internal Examination Per Course Marks	University Examination Per Course Marks	Sem	Internal CIE Per Course Marks	University Per Course Marks	Total Credits allotted
Yearly Examination	20	80	I	15/per course	35/per course	5.5
			II	15/per course	35/per course	5.5
					Total Credits	11

- 2013 Pattern is Yearly pattern for Theory and practical courses
- 2019 Pattern is semester course of Theory and practical courses so the student has to appear for two corresponding courses from Sem I and II
- 2019 Pattern is Choice Based Credit System (CBCS) pattern (Total 11 credits for the subject Electronic Science)

S. Y. B. Sc. Electronic Science
Equivalence of Courses and Transitory Provision
(2014-15 pattern to 2020-21 pattern)

2014 Pattern			2020 Pattern		
Semester	Course code	Title of course/paper	Semester	Course code	Title of course/paper
I	EL 211	Analog Circuit Design	III	EL 241	Analog Circuit Design
	EL 212	Digital Circuit Design		EL 232	Digital System Design
II	EL 221	Electronic Instrumentation	IV	EL 366B	Sensors and Systems
	EL 222	Communication Electronics		EL 231	Analog Communication
Yearly Pattern	EL 203	Practical Course		EL 233 EL 243	Electronics Lab IIA Electronics Lab IIB

Equivalence of mark system

Semester	2014 Pattern		2020 Pattern		
	Internal Examination Per Course Marks	University Examination Per Course Marks	Internal CIE Per Course Marks	University Per Course Marks	Total Credits allotted
I	10/per course	40/per course	15/per course	35/per course	6
II	10/per course	40/per course	15/per course	35/per course	6
Practical (Yearly)	20	80		Total Credits	12

- 2014 Pattern is semester pattern for Theory courses and yearly pattern for Practical course
- 2020 Pattern is semester pattern for Theory and practical courses
- 2020 Pattern is Choice Based Credit System (CBCS) pattern (Total 12 credits for the subject Electronic Science)

T. Y. B. Sc. Electronic Science
Equivalence of Courses and Transitory Provision
(2015-16 pattern to 2021-22 pattern)

2015 Pattern			2021 Pattern		
Semester	Course code	Title of course/paper	Semester	Course code	Title of course/paper
III	EL 331	Advanced Digital System Design	V	EL 351	Digital Design using Verilog
	EL 332	Microcontrollers		EL 352	Microcontroller Architecture and Programming
	EL 333	Analog Circuit Design and Applications of Linear IC's		EL 353	Analog circuit Design and Applications
	EL 334	Principles of Semiconductors Devices			
	EL 335	'C' Programming		EL 242	Microcontroller and Python programming
	EL 336A	Optics and Fiber Optic Communication		EL 356A	Optics and Fiber Optic Communication
	EL 336B	Electronic Product Design and Entrepreneurship		EL 356B	Electronic Product Design and Entrepreneurship
	EL-347 Practical Course I			EL 357	Practical Course I
	EL-348 Practical Course II			EL 358	Practical Course II
	EL-349 Practical Course II			EL 359	Practical Course III (Project)

IV	EL 341	Advanced Communication Systems	VI	EL 361	Modern Communication Systems
	EL 342	Microcontroller and its Applications		EL 362	Embedded System Design using Microcontrollers
	EL 343	Power Electronics		EL 363	Industrial Electronics
	EL 344	Foundations of Nanoelectronics		EL 354	Nanoelectronics
	EL 345	Mathematical Methods and Circuit Analysis using MATLAB		EL 365	Process Control Systems
	EL 346A	Industrial Automation		EL 366A	PLC SCADA
	EL 346B	Consumer Electronics			-----
Yearly pattern	EL 347	Practical Course I	EL 367	Practical Course I	
	EL 348	Practical Course II	EL 368	Practical Course II	
	EL 349	Practical Course III(Project)	EL 369	Practical Course III(Project)	

Equivalence of mark system

Semester	2015 Pattern		2021 Pattern		
	Internal Examination Per Course Marks	University Examination Per Course Marks	Internal CIE Per Course Marks	University Per Course Marks	Total Credits allotted
I	10/per course	40/per course	15/per course	35/per course	22
II	10/per course	40/per course	15/per course	35/per course	22
Practical (Yearly)	20	80		Total Credits	44

- 2015 Pattern is semester pattern for Theory courses and yearly pattern for Practical course
 - 2021 Pattern is semester pattern for Theory and practical courses
 - 2021 Pattern is Choice Based Credit System (CBCS) pattern (Total 44 credits)
-