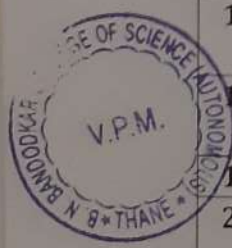


List of Value Added Credit Based Certificate Courses

Academic Year 2023-24

No	New Course	Department	Hours	Credits
1	Postgraduate Diploma Course in Clinical Studies, Data Management and Medical Writing	College	1 Year	24
Resolution No. 32, Approval for 1 new Certificate Courses as presented in Agenda 4 and granted by The Academic Council meeting held on 6 <sup>th</sup> July 2023				
2	IPR for Beginners	Chemistry	30	2
3	Forensic Science	Biochemistry	30	2
4	Introduction to Ornithology	Human Science	30	2
5	Fish dishes	Zoology	30	2
6	Calligraphy	Microbiology	30	2
Resolution No. 36, Approval for 5 new certificate courses as presented in Agenda 3 and granted by The Academic Council meeting held on 4 <sup>th</sup> September 2023)				
7	Artificial Neural Networks	IT and CS	30	2
8	Banking Insurance and Cyber Frauds	Alumni/ Inter Disciplinary	30	2
9	Basic English Learning	Inter Disciplinary	30	2
Resolution No. 18, Item No. 5.1 to 5.4 - Approval for 3 new Certificate Courses as presented in Agenda 7 and granted by The Academic Council meeting held on 14 <sup>th</sup> June 2022				
10	Basics of C++	Physics	45	3
11	Big Data Analysis	IT and CS	30	2
12	Next Generation Databases	IT and CS	30	2
13	Artificial Intelligence	IT and CS	30	2
14	Virtualization	IT and CS	30	2
15	Machine Learning	IT and CS	30	2
16	Economics for Beginners: The Basics	Inter Disciplinary	32	2
17	The Beginners Introduction to Principles of Marketing	Inter Disciplinary	60	4
18	Certificate Course in Creative Writing	Inter Disciplinary	30	2
19	Mocktails from Nature's Basket	Botany	30	2
20	Basic Course in Law for students of Faculty of Science	College	30	2
21	The Central Public Administrative System	FC	30	2
22	SPSS Basic Level I	Statistics	30	2
Resolution No. 13, Item No. 5.3 - Approval for 13 new certificate courses as presented in Agenda 7 and granted by The Academic Council (meeting held on 14 <sup>th</sup> February 2022)				



No	Certificate Course	Approval Details	Department	Hours	Credits
23	Techniques in Molecular Biology (Level-I)	CDC Meeting dated 8 <sup>th</sup> August 2018	Biotechnology & Microbiology	45	3
24	Techniques in Molecular Biology (Level-II)			45	3
25	Certificate Course in Computer Skills		IT and CS	60	4
26	Introduction to Astronomy and Astrophysics		Physics	45	3
27	Food Adulteration and Quality Management		Biochemistry	38	3
28	Research Scholar Programme		Botany	160	8
29	Solid Waste Management		Ev.S.	30	2
30	Fruit Preserves and Beverages: A Skill Development Course	CDC Meeting dated 20 <sup>th</sup> February 2019	Botany	60	4
31	Basics of R Software		Statistics	45	3
32	Python Level I		IT and CS	45	3
33	Instrumentation & Preparation of Standard Solutions		Chemistry	45	3
Resolution No.12, Item No 5.2 - Approval of allotment of credits for existing old certificate courses under Autonomy in Academic Council Meeting 14 <sup>th</sup> February 2022					
34	Basic Excel	CDC Meeting dated June 2021	Botany	30	2
Resolution No. 18, Item No. 5.2 - Approval for allotment of credits for existing old certificate courses under Autonomy by The Academic Council Meeting 14 <sup>th</sup> June 2022					
35	Management for Beginners	--	College, ID	45	3
Resolution No.3, Item No 4.2-4.17 - Approval of certificate courses in Academic Council Meeting 30 <sup>th</sup> April 2021					



*[Handwritten Signature]*

I/C Principal,  
Prof. Dr. Vinda Manjramkar

VPM's B.N. BANDODKAR COLLEGE OF SCIENCE (AUTONOMOUS), THANE