Key Indicator – 1.2 Academic Flexibility (30)

Metric No.	Quantitative Metrics	Weightage
1.2.1 QnM	***Percentage of new Courses introduced of the total number of courses across all Programmes offered during last five years.*** 1.2.1.1. How many new courses were introduced within the last five years Data Requirement for last five years: (As per Data Template in Section B) • Name of the new course introduced • Name of the Programme Formula: $\frac{\text{Number of new courses introduced during the last five years}}{\text{Number of courses offered during the last five years}} \times 100$ **File Description(Upload)** • Minutes of relevant Academic Council/BOS meeting • Any additional information Institutional data in prescribed format (Data Template)	10

Name of the new course introduced in last 5 years	Program name	Program code	Course code	Year of introduction	Link of the relevant document
Skill Engineering (Audit Course-I)	Chemical Engineering	512550710	209354	2016-17	
(Value Education) Audit Course-II			209354		
project phase I			409348	2015-16	
Soft Skills			209346	2013-14	
Introduction to Chemical Engineering			209342		
Cyber Security (Audit Course 3)	Computer Engineering	512524510	310249	2017-18	
Software Engineering & Project Management			310243		
Database Management Systems (DBMS)			310242		
Information Systems & Engineering Economics			310244		
Web Technology			310254		
Digital and social media marketing (Audit Course 4)			310259		
Systems Programming & Operating			310251		

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

System (SP & OS)					
Embedded Systems & Internet of Things (ES & IoT)			310252		
Software Modeling and Design			310253		
Discrete Mathematics			210241		
Data Structures and Algorithms			210243		
Object Oriented Programming			210245		
Computer Organization and Architecture			210244		
Humanities and social science (Audit Course 1)			210250	2016-17	
Water management (Audit Course 2)			210258		
Advanced Data Structures			210252		
Microprocessor			210253		
Principles of Programming Languages			210254		
Principal of Modern Compiler Design			410442		
Smart System Design and Application			410443		
Software Design Methodology and Testing			410449	2015-16	
High Performance Computing			410450		
Data Communication and Wireless Sensor Networks			310243		
Computer Forensic and Cyber Applications			310245	2014-15	
Principles of Concurrent and			310249		
Embedded Operating Systems			310250		
Microprocessor Architecture			210245		
Object Oriented and Multi core Programming			210247	2013-14	
Bio-Inspired Optimization Algorithms			510102		
Software Development and Version Control			510103		
Embedded and Real Time Operating Systems			510104	2017-18	
Operations Research			510108		
System Simulation and Modeling			510109		
Machine Learning			510110		
Advanced Storage Systems and Infrastructure Management	ME Computer	512524510	610101	2014-15	
Advanced Unix Programming			610102		
High Performance Databases			510102		
Advanced Computer Architecture			510103		
Research Methodology			510104		
Operating System Design			510107	2013-14	
Software Design and Architecture			510108		
Advanced Computer Networks			510109		
Wind energy system (Audit Course-III)	Electrical Engineering	512529310	303152	2017-18	
Bio energy system (Audit Course-IV)			303153		

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

Power electronics controlled drives			403148	2016-17	
Solar thermal system (Audit Course-I)					
Solar PV system (Audit Course-II)				2015-16	
Industrial and Technology management			311121	2014-15	
Advanced microcontroller and its application			303141		
Seminar and Technical Communication			303145		
Electrical Workshop			303151		
Power Generation Technique			203141	2013-14	
Fundamental of microprocessor and microcontroller			303149		
Numerical Methods and computer Programming			203148		
Soft Skills			203151		
Advanced Processors	Electronics and Telecommunication	512537210	304189	2017-18	
Japanese Language module-III (Audit Course-III)					
Japanese Language module-IV (Audit Course-IV)					
Electronics System Design			304193		
Japanese Language module-I (Audit Course-I)			204192	2016-17	
Electric Circuits and Machines			204183		
(Japanese Language module II)Audit Course-II			209354		
Wireless Network (Elective IV)			404188	2015-16	
Electromagnetics and Transmission Lines			404192	2014-15	
Embedded Processors			304184		
Antenna and Wave Propagation			304191		
Soft Skills			204192	2013-14	
Software Engineering & project management	Information Technology	512524610	314443	2017-18	
Operating System			314444		
Human computer Interaction			314445		
Green Construction & Design (Audit course 3)			314449		
Computer network Technology			314450		
Cloud computing			314453		
Data science & Big data analytics			314455		
Social Awareness and Governance Program (Audit course 4)			314459		
Computer organization & Architecture			214452	2016-17	
Road Safety (Audit Course1)					
Foundations of communications & Computer network			214453		
Stress Relief: Yoga and Meditation (Audit Course 2)					
Information & cyber Security			414453	2015-16	

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

Software modeling & Design			414454		
Machine Learning			414455		
Cloud Computing (Elective-I)			414456		
Business Intelligence (Elective-II)			414457		
Advanced Databases			414462		
Information Storage and Retrieval (Elective-III)			414450		
Bio Informatics (Elective-IV)			414451		
Web Engineering & Technology			314445	2014-15	
Systems programming			314450		
Operating system			314451		
Multimedia Technologies			314452		
Information Tech Project management			314453		
Problem solving & object oriented programming			214445	2013-14	
Foundation of computer Network			214452		
Value Education(Audit course)	Mechanical Engineering	512561 210	202055	2016-17	
Refrigeration and Air Conditioning			402041	2015-16	
Hydraulics and Pneumatics			302045	2014-15	
Skill Development			302046		
Soft Skills			202047	2013-14	
Optimization Techniques	ME Design	512560 110	602213	2014-15	
Material Science and Mechanical behavior of Materials			502202	2013-14	
Research Methodology			502204		
Finite Element Method			502209		
Indirect Tax	MBA	5125	403F	2017-18	
Strategic Management			301	2016-17	
Enterprise Performance Management			302		
Startup and New Venture Management			303		
Summer Internship Project			304		
Contemporary Marketing Research			305MKT		
Consumer Behaviour			306MKT		
Integrated Marketing Communications			307MKT		
Strategic Brand Management			309MKT		
Customer Relationship Management			312MKT		
Marketing of Financial Services - I			315MKT		
Direct Taxation			305 FIN		
Financial System of India , Markets and Services			306 FIN		

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

Strategic Cost Management			307 FIN		
Corporate Finance			309 FIN		
Banking Operations - I			313 FIN		
Futures and Options			315 FIN		
Labour & Social Security Laws			305 HR		
Human Resource Accounting & Compensation Management			306 HR		
Employee Health, Safety& Welfare			307 HR		
Compensation Management			308 HR		
Public Relations & Corporate Communication			312 HR		
Lab in Recruitment and Selection			314 HR		
Planning & Control of Operations			305 OPE		
Inventory Management			306 OPE		
Manufacturing Resource Planning			310 OPE		
Technology Management			311 OPE		
Six Sigma			312 OPE		
Project Management			315 OPE		
Agriculture and Indian Economy			305RA BM		
Rural Marketing I			306RA BM		
Agricultural Marketing			312RA BM		
Rural Research Methods			313RA BM		
Rural Banking			314RA BM		
AgriSupply Chains Management			315RA BM		
I T Management and Cyber Laws			305 IT		
E-Business and Business Intelligence			306 IT		
Mobile Computing with Android			308 IT		
E-Learning			311 IT		
Software Marketing			312 IT		
IT for Retailing			313 IT		
Essentials of Supply Chain Management			305 SCM		
Logistics Management			306		

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

			SCM		
Managing Material Flow in Supply Chains			307 SCM		
Inventory Management			308 SCM		
Purchasing & Supplier Relationship Management –I			309 SCM		
Six Sigma			310 SCM		
International Business Economics			305 IB		
Export Documentation and Procedures			306 IB		
International Management			307 IB		
International Marketing			308 IB		
Global Logistics & Supply Chains			312 IB		
Global Strategic Management			315 IB		
Managing for Sustainability			401		
Dissertation			402		
Services Marketing			403MKT		
Sales and Distribution Management			404MKT		
Retail Marketing			405MKT		
Rural Marketing			406MKT		
Marketing Strategy			410MKT		
E-Marketing and analytics			413MKT		
Indirect Taxation			403 FIN		
International Finance			404 FIN		
Financial Risk Management			407 FIN		
Banking Operations – II			409 FIN		
Wealth & Portfolio Management			410 FIN		
Commodity Markets			412 FIN		
Employment Relations			403 HR		
Strategic Human Resource Management			404 HR		
Change Management			408 HR		
Conflict & Negotiation Management			409 HR		
Lab in Industrial Relations			411 HR		
Lab in Mentoring and Coaching			413HR		
Operations Strategy and Research			403		

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

			OPE		
Total Quality Management			404 OPE		
Quality Management Standards			405 OPE		
World Class Manufacturing			406 OPE		
Enterprise Resource Planning			408 OPE		
Lean Manufacturing			413 OPE		
Rural Credit and Finance			403RA BM		
Rural Marketing II			404RA BM		
Agricultural Finance and Project Management			409RA BM		
Intellectual Property Management			411RA BM		
Food Retail Management			412RA BM		
Agri-Entreprenuership			413RA BM		
Software Project Management			403 IT		
Enterprise Resource Planning (ERP)			404 IT		
Web Designing and Multimedia			405 IT		
Information Security and Audit			409 IT		
E-Governance			412 IT		
Internet Marketing			413 IT		
Strategic Supply Chain Management			403 SCM		
Knowledge Management in Supply Chains			404 SCM		
Green Logistics & Supply Chains			405 SCM		
Supply Chain Risk Management			408 SCM		
Supply Chain Management - Financial Perspectives			411 SCM		
Global Logistics			412 SCM		
International Business Environment			403 IB		
Indian Economy and Trade Dependencies			404 IB		
Environment & Global Competitiveness			405 IB		
E Commerce			409 IB		
Enterprise Resource Planning			410 IB		
Global HR			411 IB		
Cyber securities - IV			493		

Principal
Sir Visvesvaraya Institute of Technology
Chincholi Nasik-422102

Soft Skill - II			494		
Human Right-1			191	2014-15	
Cyber Securities -1			192		
Human Right-II			291		
Cyber Securities-II			292		
Accounting for Business Decisions			101	2013-14	
Economic Analysis for Business Decisions			102		
Legal Aspects of Business			103		
Business Research Methods			104		
Organizational Behavior			105		
Basics of Marketing			106		
Business Communication Lab			108		
Selling & Negotiation Skills Lab			110		
Personality Development Lab			113		
Enterprise Analysis - Desk Research			115		
Marketing Management			201		
Financial Management			202		
Human Resource Management			203		
Decision Science			204		
Operations & Supply Chain Management			205		
Management Information Systems			206		
Life skill			210		
Geopolitics & the World Economic System			211		
Computer Aided Personal Productivity Tools Lab			213		
Industry Analysis - Desk Research			215		

Summary

Year	Total number of Courses offered	No. of new courses introduced	Course revised Class
2013-14	36	02	SE Chemical (2012 course)
2014-15	36	00	TE Chemical (2012 course)
2015-16	37	01	BE Chemical (2012 course)
2016-17	39	02	SE Chemical (2015 Course)
2017-18	39	00	TE Chemical (2015 course)
2013-14	29	02	SE Computer (2012 course)
2014-15	29	04	TE Computer (2012 course)
2015-16	29	04	BE Computer (2012 course)
2016-17	31	09	SE Computer (2015 Course)
2017-18	33	09	TE Computer (2015 course)

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

2013-14	09	06	ME Computer-I (2013 course)
2014-15	12	02	ME Computer-II (2013 course)
2015-16	12	00	ME Computer
2016-17	12	00	ME Computer
2017-18	12	06	ME Computer-I (2017 course)
2013-14	31	04	SE Electrical (2012 course)
2014-15	31	04	TE Electrical (2012 course)
2015-16	31	01	BE Electrical (2012 course)
2016-17	36	02	SE Electrical (2015 Course)
2017-18	36	02	TE Electrical (2015 course)
2013-14	36	01	SE Electronics and Telecommunication(2012 course)
2014-15	36	03	TE Electronics and Telecommunication (2012 course)
2015-16	37	01	BE Electronics and Telecommunication(2012 course)
2016-17	39	03	SE Electronics and Telecommunication(2015 Course)
2017-18	39	04	TE Electronics and Telecommunication (2015 course)
2013-14	12	00	ME VLSI and Embedded design
2014-15	12	00	ME VLSI and Embedded design
2015-16	12	00	ME VLSI and Embedded design
2016-17	12	00	ME VLSI and Embedded design
2017-18	12	00	ME VLSI and Embedded design
2013-14	31	02	SE Information Technology (2012 course)
2014-15	31	05	TE Information Technology (2012 course)
2015-16	31	08	BE Information Technology (2012 course)
2016-17	30	04	SE Information Technology (2015 Course)
2017-18	30	08	TE Information Technology (2015 course)
2013-14	37	01	SE Mechanical (2012 course)
2014-15	38	02	TE Mechanical(2012 course)
2015-16	38	01	TE Mechanical(2012 course)
2016-17	38	01	TE Mechanical(2012 Course)
2017-18	39	00	BE Mechanical (2012 course)
2013-14	12	03	ME I Design(2008 course)

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102

2014-15	12	01	ME II Design(2008 course)
2015-16	12	00	ME Design
2016-17	12	00	ME Design
2017-18	12	00	ME Design
2013-14	14	00	FE
2014-15	14	00	FE
2015-16	14	00	FE
2016-17	14	00	FE
2017-18	14	00	FE
2013-14	86	20	MBA I
2014-15	103	4	MBA I (4)
2015-16	103	0	MBA
2016-17	128	104	MBA II
2017-18	79	01	MBA II
TOTAL	1779	237	

Principal
Sir Visvesvaraya Institute of Technology
Chincholi,Nasik-422102