



B.Tech CSE spl.in Health Informatics-180 credits

Program Core(96 credits)

Code	Subject Name	Type	Credits	Offering Semester
CSE1021	Introduction to problem solving and programming Using Python	LTP	4	1
CSE2001	Object oriented programming with C++	LP	4	3
CHI***	Introduction to Health Informatics	LT	3	3
CHI***	Security and Privacy Policies for Health Care	LT	3	3
CSA4008	Applied Machine Learning	LTP	4	3
ECE2002	Digital logic design	LTP	4	2
CSD3001	Data Structure and Analysis of Algorithm	LP	3	3
CHI***	IoT in Healthcare	LP	3	4
CHI***	Healthcare Information Systems	LT	3	3
CSE3001	Database Management Systems	LTP	4	4
CSE3003	Operating Systems	LTP	4	4
CSE3006	Computer Networks	LTP	4	5
CHI***	Social and Organizational Issues in Health Informatics	LT	3	5
CHI***	User Interface Design	LTP	4	5
CHI***	Wearable Technology and IoT	LTP	4	6
CSE4003	Big Data Analytics	LP	3	5
CHI***	Deep Learning for Health Informatics	LTP	4	6
CHI***	Embedded systems design using ARM	LTP	4	5
CHI***	App Development for Healthcare Informatics	LP	3	6
DSN2098	Project Exhibition – I	PJ	1	3
DSN2099	Project Exhibition – II	PJ	1	4
DSN3099	Engineering Project in Community Service	PJ	2	5
DSN2097	Internship	PJ	2	6
CHI***	Application of Health Care Information Systems	LT	2	4
DSN4099	Capstone Project	PJ	20	8
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Program Electives (21 credits) Choose seven

CHI***	Health Care IT Vendor Management	LT	2	5
CHI***	Medical Terminology for Health Information Management	LT	3	4
CHI***	Healthcare IT Administration	LT	2	4
CHI***	Informatics for the Clinical Investigator	LT	3	5
CHI***	Theoretical Concepts of Clinical Decisions Support Systems	LT	3	5
CHI***	Transforming Healthcare using Business Intelligence and Predictive Analytics	LTP	4	4
CHI***	Practical Implementation of Clinical Decision Support Systems	LP	3	5
CHI***	Information Technology and Patient Safety	LT	3	5
CHI***	Healthcare Data Analytics	LP	3	5
CHI***	Applied Statistics for Health Data Science	LT	3	6
CSA3007	Artificial Intelligence	LTP	3	6
CHI***	Introduction to cyber physical systems	LT	3	5

Code	Subject Name	Type	Credits	Offering Semester
CHI***	Medical Imaging	LP	3	6
CHI***	Health Economics	LT	3	7
CHI***	Mixed Reality	LP	3	6
NAS1001	Associative Data Analytics	LTP	4	6
NAS1002	Advanced Associative Data Analytics	LTP	4	6
Natural Science Core (29 Cr)				
PHY1001	Engineering Physics	LTP	4	2
CHY1005	Introduction to Computational Chemistry	LTP	4	1
MAT1031	Introduction to calculus	LT	4	1
MAT2002	Discrete Mathematics and Graph Theory	LT	4	2
MAT3002	Applied Linear Algebra	LT	3	3
MAT3003	Probability, Statistics and Reliability	LT	4	4
CHY1002	Environmental Science	LT	3	2
	Principles of Epidemiology	LT	3	3
Natural Science Electives(6 credits)				
	Biomedical and Health Information Sciences	LT	3	4
	Health Care Project Management	LT	3	4
	Medical Electronics	LT	3	5
HUM and MGT Core(13 credits)				
ENG1001	Communication for Technical Professionals	LT	3	1
ENG2001	Technical Writing & Composition	LT	2	2
HUM1008	Swachh Bharat	PJ	2	1
HUM1007	Ethics and Values	LT	2	2
STS1001	Soft Skills for Engineers-I	LT	1	5
STS2001	Soft Skills for Engineers-II	LT	1	6
EXC1001	Extracurricular Activity	PJ	2	5
HUM and MGT Electives(9 credits)				
	Ethics & Legal Issues in Health Informatics	LT	3	4
CSA4014	Applications of AI in Healthcare	LT	3	3
	Health Informatics Business Intelligence Tools and application	LT	3	4
	Financial Management in Health Systems	LT	3	4
PLA 1001	Programming for Computing Engineers	LT	4	5
PLA 1002	PLA 1002 Placement Skills for Non CS I	LT	4	5
Open Elective(6 credits)				
	Blockchain in healthcare	LT	3	5
	Artificial Intelligence in Healthcare	LT	3	5
	AR/VR in Healthcare	LT	3	6
PLA 1003	Logic and Problem Solving for Engineers	LT	2	6

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Open Elective	6
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