



**MAHARASHTRA STATE,
BOARD OF TECHNICAL EDUCATION
(Autonomous) (ISO-9001:2000)**

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Web Circular

To,
The Dy.Secretary,
M.S. Board of Technical Education,
Regional Office,
Aurangabad/Pune/Nagpur &
Officer Incharge Mumbai Sub-region.

Sub: Assessment Norms for Semester pattern programmes of AICTE, approved Engg./Tech. Courses & Govt. approved Short-Term Diploma Courses.
With Effect From 2009-10

The Norms Standards of Information Technology & Computer oriented courses with the subject experts from various institutions and the standards required to run the courses are finalized in following components.

1. Infrastructure & Space.
2. Equipments
3. Library Books etc.
4. Staff qualification & number required.

These Norms will help the institution to develop and for the organization willing to start there courses. Also it will help to Monitoring & Affiliation of the Institute.

The above instructions to be brought to the notice of all concerned.

Encl- Formats (9)

(P.A.Naik)
Secretary

M. S. Board of Technical Education,
Mumbai - 51.

Copy submitted to :-

1. Hon.Director, M.S.Board of Technical Education, Mumbai -51 for information.
2. The Jt.Director, Technical Education Regional Office, Mumbai /Pune/ Aurangabad / Nashik/Amravati/Nagpur for information.
3. All the Principals of the Institutes affiliated to MSBTE & running AICTE Engineering /Technology Diploma & Short Term Diploma Courses through web circular.
4. Web Portal Manager of MSBTE for necessary action.

MSBTE NORMS AND STANDERS FOR EQUIPMENT



F EQUIPMENT & MACHINERIES

(Essential Equipment/Hand Tools)

Name of Course : Advance Diploma in Computer Software, System Analysis and Applications (CP)

Duration : One Year (Two Semesters) Part Time

Batch Size : 20

LAB : No 1

Sr. No.	Name of the Equipment	Specification of Equipment	Total Quantity Required	Approximate Cost (Lakh)
1	Server	Dual Core CPU, 2 GB DDR2 RAM, hard Disk, DVD Writer	01	0.5
2	Computer (Client)	P4 and above 1 GB DDR2 RAM 80 GB SATA Hard Disk ATX Cabinet DVD Combo	10	2.5
3	Printer	Inkjet A4 Size	01	0.09
		Laser A4 Size	01	0.1
4	Scanner	Flatbed A4 Size	01	0.05
5	UPS	2 KVA	01	0.15
6	LCD Projector		01	0.3
7	Internet Facility	128 Kbps onwards	All Machines	0.3
8	Web Cam			0.01
			Total	4.0

Name of Course : Advance Diploma in Computer Software, System Analysis and Applications (CP)

Duration : One Year (Two Semesters) Part Time

Batch Size : 20

LAB : No 2

Sr. No.	Name of the Equipment	Specification of Equipment	Total Quantity Required	Approximate Cost (Lakh)
1	Computer (Client)	P4 and above 1 GB DDR2 RAM 80 GB SATA Hard Disk ATX Cabinet DVD Combo	10	2.5

Software Required

Name of Course : Advance Diploma in Computer Software, System Analysis and Applications (CP)

Duration : One Year (Two Semesters) Part Time

Batch Size : 20

Sr. No.	Name of Software	Approximate Cost (Lakh)
1	Windows XP or Higher	0.1
2	MSOFFICE	0.1
3	ORACLE / MSSQL / MYSQL OR 1.0 MYSQL – 0.5 MYSQL 0.5	0.5
4	Turbo C for C++	0.10
5	Visual Basic 6.0 Studio.net	0.2
6	JDK 1.3 or above	
7	Linux OS	
8	Tomcat	
9	Visual Studio.Net	
	Total	1.0

Name of Course : Advance Diploma in Information Technology (IA)

Duration : One Year (Two Semesters) Full Time

Batch Size : 20

Sr. No.	Name of Software	Approximate Cost (Lakh)
1	Windows XP or Higher	0.1
2	MSOffice	0.1
3	Turbo C	0.1
4	ORACLE / MSSQL / MYSQL	0.5
5	Visual Basic 6.0	0.2
6	Turbo C for C++	0.1
7	JDK 1.3 or above	
	Total	1.1

Name of Course : Certificate Course in Information Technology (IO)

Duration : One Year Full Time

Batch Size :

Sr. No.	Name of Software	Approximate Cost (Lakh)
1	Windows XP or Higher	0.1
2	Msoffice	0.1
3	Turbo C	0.1
4	Visual Basic 6.0	0.5
5	Page Maker	0.4
	Total	1.2

Qualification of Staff (Teaching)

Name of Course : Advance Diploma in Computer Software, System Analysis and Applications (CP)

Duration : One Year (Two Semesters) Part Time

No. of Lecturers : 3

Sr. No.	Name of the Subject / Course	Basic Qualification	Specialization Expected	Experience	
				Teaching	Industry
1	Advance Diploma in Computer Software, System Analysis and Applications (CP)	B.E. (Computer or IT), MCA, MCM, MCS, M.Sc. (Information Technology), M.Sc. (Computer Science), Any Graduate with ADCSSAA and Min. 2 years experience.	Database Management System, C++. Core Java, Advance Java, Visual Basic 6.0, Linux, Web Designing Tools, Software Engineering, NET Technology	1 Year Preferable	OR 1 Year Preferable

Name of Course : Advance Diploma in Information Technology (IA)

Duration : One Year (Two Semesters) Full Time

No. of Lecturers : 4

Sr. No.	Name of the Subject / Course	Basic Qualification	Specialization Expected	Experience	
				Teaching	Industry
1	Advance Diploma in Information Technology (IA)	B.E. (Computer or IT), MCA, MCM, M.Sc. (Information Technology), M.Sc. (Computer Science), Any Graduate with ADIT and Min.2 years experience.	'C' Programming Database Management System, Visual Basic 6.0, Java Programming Web Designing Tools, PC assembling & installation of peripheral devices.	1 Year Preferable	OR 1 Year Preferable

Name of Course : Certificate Course in Information Technology (IO)

Duration : One Year Full Time

No. of Lecturers : 4

Sr. No.	Name of the Subject / Course	Basic Qualification	Specialization Expected	Experience	
				Teaching	Industry
1	Certificate Course in Information Technology (IO)	Diploma (Computer Engineering), Diploma (Information Technology), Any Graduate with ADCSSAA or ADIT, B. Sc. (Computer Science), B. Sc. (Information Technology), BCA, BCS	'C' Programming Visual Basic 6.0, DTP & Page Maker	Nil	Nil

Equipment with specification

Name of Course : Advance Diploma in Computer Software, System Analysis and Applications (CP)

Duration : One Year

Batch Size : 20

Sr. No.	Name of the Book	Author	No. of Book require	Approximate Cost
1	Fundamentals of Computers	V. Rajaraman	20	55/-
2	Computer Organistion and Architecture	William Stallings	10	250/-
3	Introduction to Computers	Peter Norton	10	295/-
4	Database Management System	Arun K. Mujumdar, & P. Bhattacharyya	05	--
5	Database System Concepts	Abraham Silberschtz, Henry Korth & S. Sudarshan	10	331/-
6	An Introduction to Database System	Bipin Desai	05	430/-
7	Modern Database Management	F. McFadden J. Hoffer & Benjamin	05	--
8	Object Oriented Programming with C++	Balgurusamy	05	220/-
9	C++ The Complete Reference	Schilt	05	375/-
10	Programming with C++	D. Ravichandran	05	215/-
11	Mastering Visual Basic 6.0	Evangelos Petroustos	10	480/-
12	Visual Basic 6 Programming, Black Book	IDG	10	450/-
13	Programming with Java – A Primer	Balagurusamy	10	250/-
14	The Complete Reference Java 2	Herbert Schildt	10	465/-
15	Software Engineering	Roger S. Pressman	20	510/-
16	Complete Reference HTML	Thomas Powell	20	450/-
17	Red Hat Linux (Release 12 Fedora)	Bill Ball, et al	20	549/-
18	The Complete Reference ASP.NET	Mathew MacDonald	20	--
19	The Complete Guide to JAVA Database Programming	Matthew Siple	05	--
20	Let us C	Yashwant Kanetkar	10	--
21	Let us C++	Yashwant Kanetkar	05	--
22	Mastering Java script	--	05	--
23	V B Script : Programmers Reference	Susamre Clark, Autono-De Ponatis & others	05	--
24	Java – Black Book	--	05	--

*** At least five books per student per course are desirable.**

Space requirement for classroom / Library

Per Course

Name of Course : CP / IA / IO

Duration :

Intake : 60/40/30

Sr. No.	Type of Area	Expected Size in Meters / Sqm.	Total Area	Land Required
1	Instructional	60 sqm.	100 sqm.	
	a) Class room per course			
	b) Laboratory per course	20 sqm.		
	1. LAB 1			
	2. LAB 2			
2	Administration	30 sqm.	70 sqm.	
	1. Office			
	2. Principal Cabin	10 sqm.		
	3. Staff Room	10 sqm.		
	4. Library	20 sqm.		
3	Other Area	10 sqm.	30 sqm.	
	1. Toilet			
	Gents			
	Ladies	10 sqm.		
	2. Corridor	20% of built up area	40 sqm.	
	3. Common Room	10 sqm.		
	4. Play / Ground Open	--		
		Total	240 sqm.	