



BHARATHIAR UNIVERSITY

Established by the Bharathiar University Act 1981

Accredited with 'A' Grade by NAAC

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CHECKLIST OF RESOURCES

43B
29.2.2008

1. FACULTY RESOURCES

Working Hour Norms:

Head of the Department	: 12 Lecture hours per week
Other Faculty Members	: 16 Lecture hours per week
2 hours of Lab is equal to	: 1 hour of Lecture hour
1 ½ hours of UG Teaching is equal to	: 1 hour of PG Teaching

UG PROGRAMME: B.Sc., Biotechnology

First year : Semester I & II

S. No.	Subject	Instruc - tional Hours	No. of Faculty members required	Faculty Qualification requirements
1.	Language I and II	12	1	
2.	English I and II	12	1	
3.	Core Papers	22	1	
4.	Allied Papers - A	10	1	
5.	Foundation Course A (General Awareness)	4		
TOTAL		60	4	

Second year : Semester III & IV

S. No.	Subject	Instruc - tional Hours	No. of Faculty members required	Faculty Qualification requirements
1.	Language III and IV	12	1	
2.	English III and IV	12	1	
3.	Core Papers	14	1	
4.	Allied Papers - B	12	1	
5.	Foundation Course B	4		
6.	Diploma Courses	6		
TOTAL		60	4	

Third year : Semester V & VI

S. No.	Subject	Instruc - tional Hours	No. of Faculty members required	Faculty Qualification requirements
1.	Core Papers	54	4	
2.	Diploma Courses	6		
TOTAL		60	4	

PG PROGRAMMES:**First year : Semester I & II**

S. No.	Subject	Instruc - tional Hours	No. of Faculty members required	Faculty Qualification requirements
1.	Core Papers	90	5	
2.	Others			
TOTAL		90	5	

Second year : Semester III & IV

S. No.	Subject	Instruc - tional Hours	No. of Faculty members required	Faculty Qualification requirements
1.	Core Papers	90	5	
2.	Others			
TOTAL		90	5	

2. FACULTY ROOM REQUIREMENTS:

S. No.	Requirements	Quantity	Specification
I. HOD's Room / Cabin			
1	Room	1	10 X 15 Sq. Ft.
2	Phone with intercom	1	
3	Computer	1	P4, Dual Core, 80 GB Hard Disk or more
4	Printer	1	Laser Printer
5	Internet Connection		
5	Steel Cupboard	1	6 x 1.5 feet
6	Filing cabinet	1	6 x 1.5 feet
7	Executive Table with Chair	1	6 x 4 feet
8	Visitors Chair	3	'S' type Chair
II. Faculty Members Room			
1	Table with Writing Pad, small cupboard, drawer and locking facility	1 for each faculty	4 x 2 feet
2	Chair	1 for each faculty	S' type Chair
3	Steel Cupboard	1 for each faculty room	6 x 1.5 feet
4	Computer	1 for each faculty room	P4, Dual Core, 80 GB Hard Disk or more
5	Printer	1 for each faculty room	Laser Printer
6	Internet connection		
7	Phone with intercom	1	
12	Typist with Computer knowledge in MS Office	1	

3. TEACHING AIDS (Can be shared with other Departments)

S. No.	Name of the Aid	Required quantity	Specification
1	Public Address System in the Seminar Hall (Amplifier, Mic, Speaker, etc.)	1 1, 4, 4	-
2	Television	1	
3	Video Recorder	-	
4	Computer with DVD player	2	P4, Dual core 1.8 GHz, 1GB Ram, 80GB
5	LCD Projector	2	
6	Over Head Projector	-	
7	Video Camera	1	
8.	Dogmatic Camera	-	
9.	Document Reader	1	
10.	CDs and DVDs of subject related	25/dept	At least 2/subject
11.	Audio Video Cassettes	-	
12.	Video conferencing facility	1	optional - for the institute

4. CLASS ROOM REQUIREMENTS:

S. No.	Requirements	Nos. required	Specification as per the Norms
1	Class room Area (Separate for each year)	<i>Depending upon the no. of yrs</i>	Atleast 10 Sq.ft. per class room.
2	Black Board or Fibre Glass Board	1 <i>(each class Room)</i>	12 x 4'
3	Fan fittings		1 for every 125 Sq.ft.
4	Tube Light fittings		1 for every 100 Sq.ft.
Furnitures in the Classroom			
5	a. Table & Chair for Faculty		One set per classroom
	b. Tables & Chairs for Students		One set per student
	c. Tables for equipments		<i>one for LCD/Computer</i>
6	15 Amps. Plug Points		
7	OHP / LCD Projectors		<i>1 shared / dept</i>
8	Screen Facility or Wall space for screening		<i>2 x 2 mtr - white painting</i>

5. REQUIREMENTS FOR THE SEMINAR HALL:

(Can be shared with other Departments)

S. No.	Name of the Aid	Quantity	Specification
1	Area		
2	LCD Projector		
3	OHP		
4	Audio Video Equipments		
5	Television		
6	VCR		
7	Public Address System in the Seminar Hall (Amplifier, Mic, Speaker, etc.)		

6. LABORATORY REQUIREMENTS:

Norms: 50 Sq. Feet per student for Core courses
36 Sq. Feet per student for Allied courses.

S. No.	Requirements	Quantity required	Specification / Qualification
1	Lab Area		50 Sq.Ft. per Student / 36 Sq.Ft. per Student.
2	Lab Technician	1	B.Sc. in the relevant field.
3	Lab Attender	1	Pass in HSC
4	Stock Register	5	
5	Table size		3 x 1.5 for each student
6	Chairs / Stools	40	<i>Revolving type.</i>
7	Tables / Chairs for Lab Technician	1	

S.No.	Equipments	Quantity required	Specification
8	I year		Annexure
	II year		- do -
	III year		- do -
S. No.	Requirements	Quantity required	Specification
9	Racks / Room space for storing consumables	4 Racks 7'x6' ± 2' slab	
10	Water supply	To the sink.	From over head tank
11	Fire extinguisher	2	
12	Standby Power supply	1	Genset
13	Wash room with sink	2 sinks	10 x 10 feet 2 tap connection [4]
14	Preparation Room	1	12 x 12 feet
15	Instrument Room	1	20 x 12 feet A/c
16	Store Room	1	20 x 20 feet
17	Culture Room	3	20 x 12 feet

7. COMPUTER LAB REQUIREMENTS:

Computer Student Ratio:

Non Computer Courses	-	1 : 2
Computer Related Courses	-	1 : 1
Area required	-	20 Sq. ft. per student

S. No.	Equipments Required	Quantity Required	Specification as per the Norms
1.	Computer Server		Xeon 3 GHz or more
2.	Terminals / Nodes		P4, Dual Core, 80 GB Hard Disk or more
3.	Tables & Chairs for Terminals		3 x 3 per terminal
4.	Air Conditioner		1 / 1.5 tons for 200 Sq. Ft.

S. No.	Equipments Required	Quantity Required	Specification as per the Norms
5.	Softwares		
	a. System Softwares: Windows NT / Windows Vista, etc. Office 2007. b. Application Softwares:		
6.	UPS		10 KV with one hour backup
7.	Generator		20 KVA
8.	Printer		One for every 10 terminals
9.	Scanner		
10..	Internet connection (High speed)		512 KB / 1 MB
11.	OHP / LCD Projectors		
12.	DVD Writer		
13.	System Analyst / Administrator	1	MCA (I Class) / M.E./ M.Tech (in Circuit branches) / M.Sc.(IT) / M.Sc. Computer Science (I Class) with one year experience in System Design / Software Development
14.	Technical Staff	1	First Class in PG of the subject concerned.

8. LANGUAGE LAB:

S. No.	Description	Quantity	Specification
1	Instructor		
2	Computers with Multimedia kit		
3	Relevant Softwares		

9. LIBRARY RESOURCES REQUIRED:

(Please enclose the list of Books and Journals)

a. BOOKS / JOURNALS / MAGAZINES

First Year

S. No.	Subject	Text Books (if any)	Reference Books	No. of Journals / Magazines
1.	Language I and II	5 titles	50 titles	
2.	English I and II	5 titles	50 titles	
3.	Core Papers per Subject	5 titles	50 titles	2
4.	Allied Papers	5 titles	50 titles	
5.	Foundation Course A	5 titles	50 titles	

Second Year

S. No.	Subject	Text Books (if any)	Reference Books	No. of Journals / Magazines
1.	Language III and IV	5 titles	50 titles	
2.	English III and IV	5 titles	50 titles	
3.	Core Papers	5 titles	50 titles	4
4.	Allied Papers	5 titles	50 titles	
5.	Foundation Course B	5 titles	50 titles	
6.	Diploma Courses	5 titles	50 titles	

Third Year

S. No.	Subject	Text Books (if any)	Reference Books	No. of Journals / Magazines
1.	Core Papers	5 titles	50 titles	5
2.	Diploma Course	5 titles	50 titles	1

b. LIBRARY STAFF REQUIRED:

S. No.	Requirements	Required No.	Qualification
1.	Librarian / Assistant Librarian	1	Any Master Degree with M.Lib.
2.	Library Assistants	1	Any Bachelor Degree with B.Lib.
3.	Supportive Staff		

c. LIBRARY FURNITURE REQUIREMENTS:

S. No.	Requirements	Required quantity
1.	Racks to store books	
2.	Student study Tables	
3.	Student study Chairs	
4.	For Library / Staff	
5.	Tables and Chairs	

10. OTHER EQUIPMENTS REQUIRED:

S. No.	Requirements	Required quantity
1.	Photo copying facility	1 at Library
2.	Computers with Multimedia Kit to play back DVDs.	5
3.	Library Software	-
4.	Scanner / Smart Card reader / Bar code reader	1
5.	CDs / DVDs rack	1
6.	CDs / DVDs facility	5

11. HOSTEL FACILITIES:

S. No.	Facilities	Required facilities
1.	Hostel for Boys	1
2.	Hostel for Girls	1
3.	RCC roofed room	
4.	Cooking and Dining facilities	1 each.
5.	Recreational facility	1
6.	Fittings	TV, carrom, T.T. Board, chess set
7.	Furnitures	chairs, stools.
8.	Utilities:	
	a. Toilets	1 in each corner, 1/5 students
	b. Drinking water	2
	c. Water for other use	-
	d. Laundry facility	-
9.	Medical facilities	First-Aid kit.

As per University norms

12. AVAILABILITY OF OTHER FACILITIES :

C. H. P. S. CIVIL S. S. N. S. S.

S. No.	Parameter	Requirements
1.	All Weather Approach Road (cemeted / kuchha)	
2.	Potable Water Supply System (own bore well / municipal corporation)	
3.	Drinking Water (One pipe / Drum / Water Purifier for every floor.)	<i>water purifier at every floor</i>
4.	Electrical Generator (5 kv, 5-10 kv, more than 20 kv)	1
5.	Students' Canteen	1
6.	Students' Common Room (Boys / Girls)	<i>1 each</i>
7.	If no hostel facility is available, whether arrangements have been made for boarding and lodging of students near to the institution, if yes mode of travel from the place of stay of the institution	
8.	Toilet facilities: (Norms: One wash basin, sink, urinal and toilets for every 25 faculty and for every 25 students separately. For ladies and gents separate facilities must be available) 1. Sink 2. Water Basin 3. Urinal 4. Toilets	
9.	Parking facilities	
10.	Medical facilities (Full time / part time doctor / Dispensary)	
11.	Insurance facilities	
12.	Telephone booth	
13.	Gymnasium / Indoor / Outdoor Games facilities	
14.	Rainwater-harvesting facilities	
15.	Post office facility	
16.	Bank facility	
17.	Transport facility for day scholars	
18.	Reprographic facilities in the Institution	
19.	Barrier free environment for physically challenged	
20.	Others (Please specify)	

Lab equipments required:

The following Instruments may be made available during the respective academic years in lab:

First year:

1. P ^H meter	1 no
2. Light microscope	1 for each student
3. Microscope Phase contrast	1
4. Spectrophotometer (UV-Visible)	1 with micro cuvettes
5. Colorimeter	4
6. Incubator	4
7. Distillation unit (quartz) 3 L/hour	1
8. Water still (glass distillation)	1
9. Microfuge	1
10. Table top centrifuge (10,000 rpm)	1
11. Autoclave (vertical)	2
12. Hot air oven	2
13. Micro pipettes (various ranges)	20
14. Vortex mixer	5
15. Refrigerator	2
16. Chemical Balances (0.001 g)	1

Second year:

1. Laminar flow chamber (vertical)	1
2. Laminar flow chamber (horizontal)	2
3. Incubator shaker	1
4. Magnetic stirrer (with bars)	5
5. Deep freezer (-20° C)	1

Third year:

1. High speed refrigerated centrifuge (20000 rpm)	1
2. Electrophoresis unit (horizontal)	5

3. Electrophoresis unit (slab gel)	5
4. Power packs	5
5. DNA Trans illuminator	1
6. Thermocycler (PCR machine)	1
7. ELISA Reader	1
8. Hydrisation Oven	1
9. Immuno electro phoresis Unit	5
10. Western blott Unit	1

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