

GOUR MAHAVIDYALAYA

MANGALBARI, MALDA



BEST PRACTICE: ANNEXURE-I

Quality education is impossible without innovative technology because traditional methods are cumbersome and slow and the new generation requires high speed and wants to go beyond imagination that can be achieved only through latest technology. The College has partly adopted ICT enabled e- governance. Principal's room, office, each department and the Library have computers fitted with printers. The entire network of the Office has been connected to a single server under a master administrative control. The College Office and the Department of Computer science have been interconnected by LAN. Many records are maintained in an electronic format. Electronic products, software and accessories are bought for the up gradation of the existing technological infrastructure. The College has installed different software for on line admission, salary and P.F. transfer, maintenance of accounts, collection of fees and other activities like E-tender. The College has provided photocopier machine and LCD projectors. The Institution has provided at least one computer with internet connection to each department and also to the office staff. Electronic products ,software and accessories are bought for the up gradation of the existing technological infrastructure. LIBSYS is being used for Library automation. INFLIBNET, E- books

from Taylor and Franchise group and JSTOR are available. Faculty members, members of the non-teaching staff and students can access the internet facility.

(a). Internet: There are 14 points and 2 browsing centres. The Institution has provided at least one computer with internet connection to each department and also to the office staff. Students, Faculty members and members of the non- teaching staff get information smoothly.

(b).College website: www.gourmaha.org.in.- The College website has been beautifully designed with high- definition visuals by the experts under the guidance of ICT committee. The College Website is a primary means by which prospective students learn about Institution. Students, guardians and stakeholders gather information from college website and take decision regarding ward's admission. The text and images that appear on website provide students and guardians with their first and only institutional impressions, the messages the website conveys are incredibly important.www.gourmaha.org.in provides all in formations related to college history, vision ,mission, prospectus, online admission process, fees structure, intake capacity, faculty position ,non- teaching staff position, activities of the IQAC, Academic calendar, Syllabus, Question papers of the previous year, publications by faculty members, Departments, Faculty profile, Students feedback form and analysis, Teachers feedback form and analysis, Employers feedback form and analysis, Parents feedback form and analysis, Students satisfaction survey form and analysis, Alumni feedback form and analysis, Hostel accommodation, events, photo gallery, notice, magazine, service by Library, role of different committees, research activities, activities of career and counselling cell, N.S.S., games and sports, Stipend/scholarship, Gender Sensitization and Sexual Harassment prevention Cell, Anti-ragging committee, achievements in different fields and many others like results. With a website as sleekly designed, informative, interactive, and easy to navigate, it's no surprise that Gour Mahavidyalaya has snagged one of the best spots for admission.

(c).College App: The College has launched Gour Mahavidyalaya App on 28.5.2017.

Menu available for the staff:	1. Notice: The users can see notice.
	2. Office orders: The users can see notice.
	3. Events: The users can see future programmes.
	4. Grievance and Feedback: This section ensures feedback system.
	5. Compliant cell: The users can launch complaint.
	6. Data Sync: The users can fetch old data.
	7. Profile: The users can see their profile.

	8. Website: The users can observe different aspects of college events, profile of the faculty members, notice, and tender.
	9. Greetings: The users can see different types of greetings.
Menu available for the Students	1. Notice: The users can see notice.
	2. Office order: The users can see office order.
	3. Anti ragging: The users can launch complain, grievance.
	4. Grievance and feedback:
	5. Internal complaint cell: The users can launch complain.
	6. Result: The users can see results.
	7. Attendance: The users can see their monthly attendance.
	8. Data sync: Students can fetch old data.
	9. The Users can get help.
	10. Profile: The users can see their profile.
	11. Website: The users can see college website.
	12. Greetings: The users can see different types of greetings.

(d).Notice board: There are 9 notice boards for circulation of notice. Our staff post notice and result sheet. Having a notice board in the office can be one constructive method of promoting important information to a large number of people, but it can also be interactive and exciting to use. Notice boards can change the way we communicate with each other in our offices and can create a sense of being part of a community within the office. It allows employees to actively see that there is an issue that needs to be dealt with immediately.

(e).HRMS software based online salary, P.F. transfer, and e-pension: Each module performs a separate function within the HRMS that helps with information gathering or tracking. HRMS modules assist with:
 * Managing pay roll.
 * Gathering, storing, and accessing employee

information.* Text message related to salary, P, F transfer.*e-pension.

(f).The College has introduced e-tender system. Electronic tendering ("e-Tendering") is a process for sending and receiving tenders by electronic means. E -Tendering has potential benefits for both authority and vendor:

- a. Reduced costs - No postage and printing for tenders to be sent to us.
- b. Speed - Using the service means we will be able to shorten tendering periods for tenders, eliminate postage delays and rapidly disperse tender returns for evaluation, so providing faster decision-making.
- c. Peace of Mind - Eliminates worries regarding timely delivery of documents against a deadline by giving instant delivery.
- d. Efficiency - Enables tenders to be created, exchanged and stored electronically. Secure access anytime, anywhere; from any computer with Internet access.
- e. Immediate e-mail notification of bidding opportunities.
- f. Access to bid documents online.
- g. Ability to see what government organizations are using the system.

h.Transparency

(g).Message through Mobile: SMS is omnipresent because it reaches the recipient everywhere. Bulk SMS literally means to reach a large number of recipients instantly through SMS.WBFM informs staff about salary and P.F. transfer through SMS.

(h).Prospectus: College Prospectus is one of the means by which prospective students learn about Institution of higher education. . Information about college history, vision, mission, intake capacity, the process and criteria for admissions, faculty position, research activities, different facilities, any reservations or quota for any category, the eligibility criteria for these reservations/quotas, certificate required for seeking admission under these is stated clearly in the Prospectus.

(i).Online admission process has several steps one after another-a. Online notification.b.online form fill up c.automatic generation of merit list .d.e-counselling.e.verification.f.registration

1.4.2018-31.3.2019

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart – ments: computers	Others
Existing	70	3	yes	2	NIL	11	59	
Added	1	-	-	-	NIL	-	1	
Total	71	3	yes	2	NIL	11	60	

Innovative processes adopted by the Institution in teaching and learning include(a). Virtual laboratories,(b). Virtual class room, (c).e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.:(d). Audio- visual aids to enliven classroom lectures (English, Geography, Botany, Zoology, Computer Science , Mass communication and Journalism).(e). Department of Botany has 1 smart classroom.(f)..

Teachers of the Department of Chemistry organize and conduct of Popul/ Teaching web-based/(g). E- library/ IT- assist Teaching, Use of ICT- Multi-media/simulation etc.

The following electronic products,A.C., software and accessories are bought(2019-out of grants from RUSA) for the up gradation of the existing technological infrastructure.

SL	Item	Quantity	SL	Item	Quantity
1	Haier 2Ton Split A.C.	12	2	Probes for CRO (BNC to CROCODILE)	2
3	Transistor : CL100	24	4	Multimeter . Digital. Standard model. To measure V, I, Ohms, Transistor Hfe, Continuity check, Diode check, For regular student use. Heavy duty.	4
5	Transistor : 2N-3055,CDIL/BEL	12	6	Multimeter . Digital. With capacitance measurement. Standard model. To measure V, I, Ohms, Transistor Hfe, Continuity check, Diode check, Frequency & Capacitance measurement.	1
7	IC : 741	24	8	Multimeter With LCR, Hz measurement. Standard model.	1
9	IC : 7400	24	10	AC Meter Probe. BNC to crocodile	10
11	IC : 7486	12	12	Multimeter Probe (set of 2pcs)	4
13	IC : 7402	12	14	Coils of wire Suitable for Bread Board use. 1 coil approx 90 meter & 0.6 mm	2
15	IC : 7404	12	16	9 Volt Battery	12
17	Diode : 4007IN	24	18	1.5 Volt Battery (1.5 Volt AA Battery)	12
19	Zener Diode : 3Watt/5.6V	4	20	Crocodile Clip 1 Pair. Heavy type. Spring contact.	24
21	Capacitor : 0.01MFD	24	22	Fixed resistance With 2 terminals in casing. Manganin Coils (Imported). Class: 0.5% Range: 0.01 to 50 any desired value.	10
23	Capacitor : 0.001MFD	24	24	Decade capacitance 0.01 ufd x 10 or 0.1uf x 10 or 1 ufd x 10 – any single set	5
25	Capacitor : 0.0001MFD	24	26	Set-up for Mutual Inductance Complete Set up: All with best quality materials only. a) Ballistic Galvanometer. High precision. @3800/- b) Lamp and scale arrangement, Wall Type @2800/- c) Variable Mutual Inductance, Box Type @4800/- d) Shunt Box, Two dial Type, Manganin coil, range 0.01 & 0.1 ohms in ten steps. @1800/- e) Power Supply , 4V/2 amp @1200/- f) Plug Commutator ,Heavy Type, 2 pcs @950/- x 2 g) One way plug key, Heavy Type, 2 pcs @450/- X2 h) Poul's commutator (without mercury)@1200/- i) Resistance Box, Manganin coils 1 to 10000ohms @3200/- j) Resistance Box, 1 to 1000ohms Manganin coils@2400/-	1
27	Capacitor : 2.2MFD	24	28	Decade resistance 1Meg X 10 Total 10Meg Ohms	4
29	Capacitor : 10MFD	24	30	Emitter follower Complete with biasing power supply, circuit arrangement, Audio generator 200 KHz Dial type, detailed manual.	2
31	Capacitor : 470MFD	24	32	Voltage Supply(Mutual Inductance setup) DC Power Supply 0-30V / 5 A PRECISION POWER SUPPLY : CV/CC Type DC Power Supply. Fully protected against continuous short circuit and over load. Automatic crossover from CV to CC. Remote sensing	1

				type. Load and line regulation better than 0.05%. Ripple less than 5 mV. Complete with 0.1% class Digital Voltmeter & Ammeter	
33	Capacitor : 330MFD	24	34	L-R/L-C-R/C-R To measure the voltage across the inductance (L), Capacitance (C) & Resistance (R) of a Series LCR circuit for different frequencies of the input voltages with the help of an AC Millivoltmeter & hence 1) To study the variation of impedance of L & C with frequency of the impressed voltage, 2) To draw the resonance curve of the series LCR circuit & to determine the Q factor of the circuit. Complete with Audio Oscillator – Sine wave 0-10V p-p 10KHz with digital frequency counter, digital ac voltmeter, digital ac ammeter or voltmeter, digital frequency counter, different values of L, C & R. Complete in all respect with detailed manual	3
35	Capacitor : 0.22MFD	24	36	Anderson's Bridge To measure the self – inductance of two coils by Anderson Bridge to find the total inductance of two coils connected in series & hence to estimate the co-efficient of coupling between the coils. Complete with Anderson Bridge full set up with three non inductive resistances of 100 ohms. A variable non inductive resistance in the form of three decades of 0.1x10, 1x10, 10x10 ohms. This resistance also includes the resistance of self-inductance e L which is also connected in the same arm. A non inductance variable resistance of three decades of 10x1, 10x10, 10x100 ohms & standard capacitance in the form of four values of 0.005, 0.01, 0.02,0.05 mfd selected by a selector switch. Complete with Digital null detector, 1 KHz Sine wave Audio Oscillator with variable amplitude. Additional : Variable inductance coil (Cross coil)	2
37	Capacitor : 0.022MFD	24	38	L-R/L-C-R/C-R To measure the voltage across the inductance (L), Capacitance (C) & Resistance (R) of a Series LCR circuit for different frequencies of the input voltages with the help of an AC Millivoltmeter & hence 1) To study the variation of impedance of L & C with frequency of the impressed voltage, 2) To draw the resonance curve of the series LCR circuit & to determine the Q factor of the circuit. Complete with Audio Oscillator – Sine wave 0-10V p-p 10KHz with digital frequency counter, digital ac voltmeter, digital ac ammeter or voltmeter, digital frequency counter, different values of L, C & R. Complete in all respect with detailed manual	3
39	Capacitor : 1000pF	24	40	Anderson's Bridge To measure the self – inductance of two coils by Anderson Bridge to find the total inductance of two coils connected in series & hence to estimate the co-efficient of coupling between the coils. Complete with Anderson Bridge full set up with three non inductive resistances of 100 ohms. A variable non inductive resistance in the form of three decades of 0.1x10, 1x10, 10x10 ohms. This resistance also includes the resistance of self-inductance e L which is also connected in the same arm. A non inductance variable resistance of three decades of 10x1, 10x10, 10x100 ohms & standard capacitance in the form of four values of 0.005, 0.01, 0.02,0.05 mfd selected by a selector switch. Complete with Digital null detector, 1 KHz Sine wave Audio Oscillator with variable	2

				amplitude. Additional : Variable inductance coil (Cross coil)	
41	Capacitor : 520pF	24	42	CRO(Analog) OSCILLOSCOPE. ANALOG. 30 MHz. SCIENTIFIC SM410 30 MHz Dual Trace Oscilloscope with probes & manual. Product Features Bandwidth 30 MHz Dual Channel, 1mV/div., Invert facility in both Channels Time Base : 20ns -0.2s/ div; Variable hold- off; X10 Magnification Triggering : DC-60MHz; Active TV Sync Sep.; Alternate triggering Vertical Deflection and Time base Accuracy + 2% (in cal position) XY Mode Component Tester; 2 Level Calibrator	
43	Capacitor : 300pF	12	44	Signal Generator FUNCTION GENERATOR.5 MHz 4 Digit Digital Frequency display. Wave forms : Sine / Square / Triangular. Frequency : 10 Hz to 5 M Hz Output amplitude : Sine / Square / Tria : 0-3V p-p Output impedance : 50 Frequency readout : 4 digit counter	
45	Capacitor : 100pF	24	46	SPECTROMETER 7" circle, 20 sec Vernier Constant. DELUXE MODEL. High Grade Spectrometer. 7" circle. 20 Sec Vernier with circular slit & micrometer scale. Stainless steel scale. The achromatic objectives used in the telescope & the colorimeter are of very superior quality. The scales and verniers are automatic machine divided. Cover plate is provided to protect the scale and vernier from dust and carries two transparent windows for verniers. Complete with prism clamping device & diffraction grating stand. Provided with vertical adjusting screws to both the colorimeter & Telescope. Clamping devices are provided to lock the colorimeter & Telescope after adjustment	4
47	Capacitor : 10pF	24	48	Grating Plates GRATING. Imported Optical grating: Imported from UK 15000LPI	5
49	Prism Prism. EDF 32x32 For Spectrometer work. Made from Extra Dense Flint Glass. RI - 1.65	5	50	Search Coil Set-up The mean diameter of search coil is 1 cm. - 100 turns are wound with insulated copper wire over this diameter - the body of search coil is made with non-magnetic and nonconducting material - complete with stand and releasing devices	4
51	OPTICAL BENCH - 0.75" SS Rods. Heavy Duty Heavy type. 1" Stainless Steel rods, Heavy riders. 1.5 Meter long. Heavy duty. It has two metallic heavy rods duly chrome plated. A third is provided for better support. Machine graduated scale. Four heavy cast iron Riders are provided. Complete with lens holder, lamp house, Screen, needle.	1	52	Galvanometer GALVANOMETER. BALLISTIC / DEAD BEAT Made from Phosphor Bronze ligament imported from Germany Coil resistance: 100 ohms Time period : 12 Sec Sensitivity : 300 mm per micro coulomb at 1M	6
53	Philips Low Pressure Sodium Lamp Phillips. 35 watt	10	54	Galvanometer GALVANOMETER. ANALOG 1.5 %class accuracy. Rectangular shape approx. 4"scale with anti parallax mirror scale. Table top model on stand with terminals. Suitable for laboratory use. Scale Division: 30-0-30	12
55	Newton Ring Microscope NEWTON'S RING MICROSCOPE SET.	1	56	Power supply DC Power Supply 0-12V / 1 A. Digital Complete with digital voltmeter. Short circuit	6

	Complete with Two Motion Newton's ring Microscope, Set of Newton's ring lens with mounting & adjustment arrangement. One Plano-convex lens and one optically trueparallel glass plate are put together inside a brass cup with screw cap arrangement and is fitted with leveling screws – one glass plate with arrangement to incline is fitted on the same cup- supplied with one lens fitted in metal frame and base with leveling screws for parallel rays form the source. Optional: Na Lamp , Lamp House, Transformer for Na lamp			protected.Tharmal shutdown circuitry. Low output impedance.	
57	Polarimeter with bi-quartz It has □ aurent quartz device which makes the instrument sufficiently accurate & at the same time simple & suitable for use with sodium light. The circular head is attached near to the analyser & vernier movable over this scale enable reading of optical rotation accurate to 1/10th deg. 1 200 mm rube for containing the solution under study for it's optical activity is supplied with the instrument. The whole optical system is mounted on a sturdy adjustable tripod stand. Additional : Na Lamp, Lamp House, Transformer for Na lamp	2	58	Microprocessor setup (8085) with power supply M85-01 8085 Microprocessor Trainer Kit 1. 8K bytes of RAM using 6264 with Battery Backup using NICD Battery. 2. On-board one memory expansion up to 56KB. 3. Three Channel Timer/Counter using 8253 brought out at 10 Pins FRC Connector. 4. 24 I/O lines provided through 8255 brought out at 26 Pins FRC Connector to interface with IC-XX Series. 5. RS-232C interface through SID/SOD lines 6. Two mode of commands: - Hex Key pad Mode – Serial Mode 7. Six Digit Seven Segment Display using 8279. 8. 28Key's Hex Keypad using 8279 Keyboard Display Controller. 9. Powerful Commands like Examine/Edit Memory, Examine/Edit Register, Single stepping, Execution, Block Move, Insert Data, Delete Data can be used through Hex keyboard or PC serial mode. 10. Facility for Downloading/Uploading files PC. 11. All address, data & control lines are available on KXT Bus 50 pin FRC Connector to interface with SC-XX Series. 12. All ICS are mounted on IC Sockets.	11
59	CE amplifier Trainer Panel Board for CE Amplifier. Single Stage 12 V DC Power Supply for biasing the transistor, circuit arrangement including Transistors like CL100, BC 107, resistance R1& R2 for voltage divider, resistance Rc & Re collector, emitter, three capacitor Ci,Cc&Ce for input,collector & emitter bypass capacitor, on board Bread Board, manual.AC Millivoltmeter. 20mV/200mV/2V/20V Frequency response upto 200KH	2	60	CE amplifier:11:Stainless Steel Structured Chaire table with bag holder abd cushion	80

	Platinum Resistance thermometer. 99.9 % pure platinum wire used. Made from original Platinum Wire. Housed in Borosil Glass tube. Complete with terminals.	2			
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61. Software-1 (college fund).

The College has partly adopted ICT enabled e- governance to ensure timely, efficient and progressive performance of academic, administrative and financial tasks.

(j). IQAC monitoring committee has been monitoring the whole process.

(k). ICT committee has been monitoring the Management Information system.

BEST PRACTICE: ANNEXURE-II

Our environmental ethics is to make the College campus more sustainable and eco-friendly. A Green campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. Green campus is holistic aiming to make environmental awareness and to act as an intrinsic part of the life and ethos of the Institute. Green campus endeavours to extend learning beyond the class room to develop responsible attitudes and commitment both at home, village and college campus or in the wider community. Many Gardens have been developed: (1). Flower Garden (No.1): 372" x 922". (2). Flower Garden (No.2): 511" x 517". (3). Flower Garden (No.3): 508" x 119". (4). Flower Garden (No.4): 385" x 415". (5). Flower Garden (No.5): 237" x 294". (6). Garden of Medicinal plants: 669" x 116". (7). Garden of Medicinal plants (No.2): 610" x 1189". (8). Garden in front of Library. (9). EX-situ conservation garden (NO.1). (10). Herbarium (NO.1) (11). Arboretum. Rain water harvesting plant and Solar power energy plant have been established.

There is a pressing need to accelerate the development of advanced clean energy technologies in order to address the global challenges of energy security, climate change and sustainable development. In today's scenario solar power is one of the best solutions to overcome the energy deficit in the World. The generation of solar power does not have any adverse effect on the environment. The plant provides substantial cost savings on the power consumption for the college. One of the biggest challenges of the 21st century is to overcome the growing water shortage. Rainwater harvesting has thus regained its importance as a valuable alternative or supplementary water resource. Green campus initiative helps to create environmental awareness. Students and teachers have shown responsible attitudes and commitment to the environmental enrichment. There are two NSS Units in the institution. A village named BHABUK under Old Malda block has been adopted by the NSS Units in order to uplift the condition of the marginalized people residing there.