Government Arts College
Thiruvananthapuram

Institutional Development Plan
January 2022

About Government Arts College Thiruvananthapuram

Government Arts College, Thiruvananthapuram is a leading Government college in the state of Kerala with a long and splendid history. This college was a part of His Highness the Maharaja's College, Thiruvananthapuram in the erstwhile state of Travancore. It was separated from the parent institution in 1924 (vide GO. R.O.C. No. 395 of 23 Legis, E dated 9th May, 1924 issued by the Government of H. H. The Maharaja of Travancore) to house the Arts Departments, and named H. H. The Maharaja's College of Arts. The parent college was named H. H. The Maharaja's College of Science.

When the new college opened on the 4th of July, 1924, the Departments of History, Economics, Sanskrit and Dravidian Languages and English were transferred to it from the parent institution. Honors courses in English, History and Economics were also conducted here at that time. The Department of Philosophy was opened in 1925. Ten years later, in 1935, the college started the Honors Course in Malayalam and the Post-graduate Course in Sanskrit the following year. With the founding of the University of Travancore in 1937, the two colleges were merged into the Maharaja's University college Thiruvananthapuram and the College at Thycaud functioned as a part of the University College. In 1949, with the introduction of intermediate course, the college came to be called the university intermediate college. In 1956, the Intermediate Course was stopped and the institution once again became a college coaching students for the University Previous Examination. In 1964–65, the two year pre-degree course was introduced and with the passing of the Kerala University Act, the management of the college was taken over by the Government of Kerala. Later it was named as Government Arts College with effect from the 28th of July 1971. The pre-degree courses where stopped by the Government in 1999.

Currently the college runs four Undergraduate programmes (B.A. Economics, B.Sc. Physics, B.Sc. Botany and Biotechnology and B.Com. Finance) and six Postgraduate programmes (M.A. Economics, M.A. English, M.Sc. Analytical Chemistry, M.Sc. Statistics, M.Sc. Biotechnology, M.Sc. Botany and Biotechnology and M.Com. Finance). The Commerce department of the college is a research centre under the University of Kerala. The college is accredited with NAAC grade of B+ in 2017 March. The college stood as one among the best 100 colleges in India for two consecutive years in NIRF rankings.

College Profile

1.	Name of College	:	Government Arts College Thiruvananthapuram
2.	Year of Establishment	:	1924
3.	Principal	:	Dr. Sheela K L *(Principal in Charge)*
4.	UGC Recognition	:	Recognised under 2(f) and 12(b)
5.	Type	:	Co-education Multidisciplinary
6.	Source of Funding	:	State Funding, RUSA, UGC
7.	Website	:	www.gactvm.org http://gactvm.ac.in/
8.	Email	:	artscollegeofficetvpm@gmail.com office@gactvm.ac.in
9.	Telephone	:	04712323040
10.	Address	:	Government Arts College Thycaud Thiruvananthapuram 695014
11.	Accreditation	:	Grade B+ Score 2.67
12.	Affiliating University	:	University of Kerala
13.	No. of UG Programmes	:	4 (Four) ▪ B.A. Economics ▪ B.Sc. Physics ▪ B.Sc. Botany and Biotechnology ▪ B.Com. Finance
14.	No. of UG Programmess	:	6 (Six) ▪ M.A. Economics ▪ M.A. English ▪ M.Sc. Analytical Chemistry ▪ M.Sc. Statistics ▪ M.Sc. Biotechnology ▪ M.Sc. Botany and Biotechnology ▪ M.Com. Finance
15.	No. of Departments	:	Science 4 Arts and Humanities 3 Commerce 1 General 10

16.	Research Centre	:	1 [Commerce]		
17.	No. of Students	:	UG	577	
			PG	168	
			Ph.D.	46 [FT – 29; PT – 17]	
18.	Gender Profile	:	UG Students	M - 38.99 %	F - 61.01 %
			PG Students	M - 19.05 %	F - 80.95 %
			Ph.D. Students	M - 45.65 %	F - 54.35 %
			Teaching Staff [P]	M - 49.02 %	F - 50.98 %
			NonTeaching Staff	M - 63.33 %	F - 36.67 %
19.	No. of Teaching Staff	:	51 [Regular]		
			04 [Guest]		
20.	Qualification of Permanent Faculty	:	Ph.D.	35	
			M. Phil.	20	
			Both M. Phil. & Ph.D.	15	
21.	Student-Teacher Ratio	:	Total	14.60 : 1	
			UG	13.42 : 1	
			PG	4.54 : 1	
22.	No. of Non-Teaching Staff	:	27		
23.	Campus Area [in acres]	:	2.29 acre		
24.	No. of Buildings	:	5		
25.	No. of Play Grounds	:	3		
26.	No. of Auditorium	:	1		
27.	No. of Examination Halls	:	2		
28.	No. of Library Books	:	44,682		
29.	No. of Periodicals	:	24		
30.	No. of Newspapers	:	13		
31.	No. of Journals	:	28		
32.	Assembly Constituency	:	Thiruvananthapuram		
33.	Lok Sabha Constituency	:	Thiruvananthapuram		

Infrastructure

1. Administrative

The principal's room of the college is on the top floor of the heritage building. The furniture there is very old and mostly damaged. Moreover, the room itself resembles an ordinary staff room without many facilities. Hence the principal's room needs to be furnished well and modernised with advanced communication facilities including audio-visual equipment. Due to the increased demand for online meetings, these facilities are essential there. The office room, adjacent to the principal's room, is congested and it too lacks many facilities. This too needs to be upgraded with a sufficient number of computers, furniture, printers, and other accessories.

The functioning of the office system is based on a paperless system and DDFS enabled. However the computers in the office are outdated and are to be replaced with updated versions. 12 desktops/ laptops are needed to refurbish the present state of the office. Examinations have also shifted to the online mode. Most question papers are being communicated via confidential email. A dedicated system (with security features) and a heavy duty printer with power backup is of utmost urgency. Regular maintenance of networking facilities is also envisaged. A Management Information System (MIS) needs to be incorporated to make the office automation and other administrative functions more efficient. This is a necessary requirement in getting good grades in NAAC Assessments. The safe keeping of files is to be ensured with closed file racks and the office is to be furnished for effective utilization of the available space.

At present there is no reception corner and visitors lounge in the college. Hence these two facilities need to be set up with modern amenities. In spite of being the main hub for quality related activities in the college, the present IQAC room also lacks many essential facilities. Hence this room needs to be converted into a good one with most modern facilities. Currently there is no board room in the college which makes conducting small group meetings difficult. It is moreover a necessity during the forthcoming NAAC visit. Hence a board room has to be set up near the IQAC room. At present there is only one auditorium in the college having a seating capacity of 100. It needs to be furnished along with the installation of audio-visual equipment. The number of the toilets in the campus is inadequate. Those available have become old and overused; hence they are in dire need of maintenance.

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
a	**Principal's room**					
	Interactive panel with accessories		2,00,000			
	DTH connection		5,000			
	Web cam, wireless mic, speaker system	30,000				

	ALL in One computer and wireless duplex printer	1,25,000				
	Side paneling, beautification and aluminium fabrication	7,00,000				
	AC/ Cooler	3,00,000				
	Furnishing	5,00,000		5,00,000		
b.	**Office room**					
	A3 Scanner-1 A4 Scanner -1	10,000				
	Purchase of computers	6,00,000				
	Maintenance of networking	20000	20,000	20,000	20,000	20,000
	Heavy duty printer	5,00,000				
	Office furnishing	5,00,000	5,00,000	5,00,000	5,00,000	
	Developing a MIS (management Information System)		10,00,000			
c	**Reception**					
	Electronic display			1,00,000		
	Helpdesk and cabin with furniture			3,00,000		
d.	**Visitor's lounge**					
	Sofa Set, Teapoy				60,000	
	Wash room facility				3,00,000	
	AC				50,000	
	Reading material and rack				50,000	
	TV and water purifier				50,000	
e.	**IQAC**					
	Cabinet, shelves, Executive Table and chairs	1,00,000				
	AC	50,000				
	Laptop and Heavy duty Multifunction Printer	1,80000				
	Short throw Projector	1,00,000				
	Wash room	3,00,000				
f.	**Board room/ Meeting rooms**					
	Interactive panel	2,50,000				
	Conference table with chairs (capacity 12 person) mike and power plugs	3,00,000				
	Acoustic mike and tracking camera	4,00,000				
	Paneling and sound proofing	1,50,000				

	Renovation of college auditorium-	7,00,000				
	College Auditorium-Stage lights,	4,00,000				
	College Auditorium-cabinet for the storage of electronic items, maintenance of cables	1,50,000				
	Jefferson chair -150	20,00,000				
g.	**Toilets**					
	Maintenance work of existing toilets -21	5,00,000				
h.	**Record Room**					
	Setting up file racks				10,00,000	
	CCTV				50,000	
	Fast Scanner	50,000				
i.	**Examination Halls**					
	Renovation of the current examination hall- -Repairing and polishing of existing tables & chairs - Purchase of new furniture	5,00,000				
	Water purifier	50,000				
j.	**Setting up new Online examination hall [100 capacity]**					
	Computers					60,00,000
	UPS (1Hr backup)+ Generator					35,00,000
	Electrical wiring and lighting					15,00,000
	Cabin and chairs					3,00,000
	CCTV and 2 display panels					15,00,000
	Networking					
	Dedicated high speed internet connectivity					2,00,000/ year
k	**Maintenance of Heritage Building**					
	Side steps repair	2,00,000				
	Repairing the floor tiles in the ground floor and verandahs	5,00,000				
	Leak proofing the rooftop	25,00,000				
	Side corridor maintenance	15,00,000				
	Polishing painting of wooden doors and windows		20,00,000			

	Repainting entire heritage building		15,00,000			
	Replacing the old pipelines and fittings	15,00,000				
	Complete rewiring and replacing electrical fittings with energy efficient alternatives.	20,00,000				
	TOTAL	**1,76,65,000**	**52,25,000**	**14,20,000**	**20,80,000**	**1,30,20,000**

2. Academic

There are 4 UG programmes and 6 PG programmes in the college. All the classrooms are to be converted to smart classrooms. Also the furniture of the classrooms are to be repaired and additional furniture are required. The research room of the Commerce department is also to be modernised. Additional space has to be provided as more than 50 students are registered here for Ph. D.

A new seminar hall having a capacity of 200 seats is to be established in the proposed KIIFB building. There are certain civil/ electrical works in all the departments and the HOD's rooms. There are 10 single-man departments in the college that lack computer facility. Hence a laptop may be given to them for taking online classes and research activities. There is a scarcity in the number of toilets for the students and staff. Hence a new toilet block is to be constructed.

There will be provision for purchasing laboratory equipment and chemicals for the departments Chemistry, Physics, Botany and Biotechnology every year. A Biochemistry lab to be set up for the use of B.Sc. Botany and Biotechnology students. The PG students of Biotechnology are currently using UG Botany and Biotechnology labs. Hence separate labs for PG Biotechnology are to be set up. The computer labs of Statistics, Chemistry and Commerce departments require new computer systems, AC and UPS

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
a	**UG programmes**					
	B. Com ▪ 3 smart class room ▪ Repairing existing furniture ▪ Buying new furniture ▪ Networking, ▪ Electrical repair		10,00,000			
	B. A Economics ▪ 3 smart class room ▪ Repairing existing furniture ▪ Buying new furniture ▪ Networking, ▪ Electrical repair		10,00,000			

	B.Sc Physics ▪ 3 smart class room ▪ Interactive panel ▪ Repairing existing furniture ▪ Buying new furniture ▪ Networking ▪ Electrical repair	10,00,000				
	B.Sc. Botany and Biotechnology ▪ 3 smart class room ▪ Interactive panel ▪ Repairing existing furniture ▪ Buying new furniture ▪ Networking ▪ Electrical repair	25,00,000				
b.	**P.G Programmes**					
	M.Com ▪ 2 smart class room ▪ Interactive panel ▪ Repairing existing furniture			2,50,000		
	M. A Economics ▪ 2 smart class room ▪ Interactive panel ▪ Repairing existing furniture			2,50,000		
	M. A English ▪ 2 smart class room ▪ Interactive panel ▪ Repairing existing furniture				2,50,000	
	M.Sc Analytical Chemistry – ▪ 2 smart class room ▪ Interactive panel ▪ Purchasing student Table and Chair (15 Nos)				3,50,000	
	M.Sc Statistics ▪ 2 smart class room ▪ Interactive panel ▪ Repairing existing furniture					2,50,000
	M.Sc Biotechnology ▪ 2 smart class room ▪ Interactive panel	6,00,000				
c	**Research Centre**					
	Commerce Research room ▪ Additional furniture	2,00,000				

	▪ Computer 5Nos ▪ UPS ▪ UPS Wiring		2,00,000			
	▪ Networking ▪ High speed internet ▪ Shelf			2,00,000		
d.	**Seminar Hall [Capacity - 200]** **Proposal for NEW seminar hall**					
	▪ Jefferson Chairs 200 ▪ Flooring, side paneling and furnishing ▪ False ceiling, ▪ Lighting, electrical wiring ▪ Sound system, ▪ Podium, ▪ Interactive panel, ▪ Short throw projector, ▪ UPS, wiring, AC					35,00,000
e	**Staff room**					
	<u>Commerce</u> ▪ UPS (5 kVA) ▪ Maintenance of the staff room	2,00,000	1,50,000			
	<u>Economics</u> ▪ Maintenance of the staff room			2,00,000		
	<u>English</u> ▪ Maintenance of the staff room			1,00,000		
	<u>Statistics</u> ▪ Maintenance of the staff room ▪ UPS (10 kVA)	1,00,000			8,00,000	
	<u>Chemistry</u> ▪ UPS (5 kVA) ▪ Maintenance of the staff room	3,50,000				
	Botany ▪ Maintenance of the staff room	1,00,000				
	<u>Biotechnology</u> ▪ Maintenance of the staff room, ▪ Table and chairs for teachers	3,00,000				

	Physics ▪ UPS, ▪ Laptop 3Nos, Repairing, Maintenance		5,00,000			
	General Staff room ▪ Laptops for teachers ▪ Printer, ▪ Maintenance of the staff room	6,00,000				
f.	**Toilets**					
	Additional toilet block			30,00,000		
	Refurbishing existing toilets in all buildings			10,00,000		
	One toilet in each building for the disabled	3,00,000		3,00,000		6,00,000
g	**Laboratories** **UG and PG**					
	Chemistry ▪ Fume cupboards ▪ Eye wash in all labs ▪ HT Furnace ▪ Platinum Crucibles ▪ Minor instruments ▪ Glasswares ▪ Chemicals ▪ Safety equipments ▪ Computational Chemistry Lab (12 units of computer and accessories) ▪ Workstation	10,00,000	10,00,000	10,00,000	20,00,000	20,00,000
	Physics ▪ DigitalMultimeter ▪ Soldering station ▪ Lab Consumables	2,00,000	2,00,000	5,00,000	5,00,000	5,00,000
	Botany ▪ Setting up Biochem. Laboratory for UG Complementary course ▪ Lab furniture ▪ Chemicals ▪ Instruments ▪ Replacing wooden doors of cupboards in Botany laboratory, with sliding glass doors with locks (No. 14)	10,00,000	1,00,000	2,00,000	2,00,000	2,00,000

	Biotechnology ▪ Work benches ▪ Power plugs and switches, ▪ Power backup facility, ▪ Water supply and sinks along with necessary furniture for PG lab ▪ Animal Cell culture facility, ▪ Bioinformatics and computational biology lab (6 laptops and accessories)	15,00,000	7,00,000	2,00,000	2,00,000	2,00,000
	Commerce computer lab ▪ 15 computers and accessories ▪ UPS ▪ Computer table ▪ Chair ▪ Statistical analysis software	5,00,000	5,00,000	5,00,000	3,00,000	2,00,000
	Statistics computer lab ▪ Computer (10 Nos) ▪ AC, ▪ Maintenance of existing computer lab	2,00,000	5,00,000	2,00,000	1,50,000	1,50,000
h	**Online assessment class rooms**					5,00,000
i	**Horse shoe shaped class rooms - setting up**					40,00,000
j	**Common class rooms [150 capacity]**					
	Proposal for new common classroom with ▪ Jefferson Chair 150 ▪ Flooring ▪ Furnishing Lighting ▪ Electrical wiring ▪ Sound system ▪ Podium ▪ Interactive panel, ▪ Fans					30,00,000
	TOTAL	1,06,50,000	58,50,000	79,00,000	47,50,000	1,51,00,000

3. Knowledge Hub

The present library is functioning in the jubilee building and it needs more technology based modification and space. The college is expecting a six storied building under the KIIFB scheme with an estimated completion by 2025. A full floor is proposed in the building plan for a full fledged library. Hence detailed list

of items and estimated cost is furnished here for its implementation. As the NAAC accreditation is almost due, we have to strengthen the library with more books, journals and computers. Hence provision for that is included in the proposal.

The ORICE studio is to be equipped with side paneling, sound proofing, AC, video recording facility with remote controlled camera, sound system with wireless mic, podium, interactive panel, etc. The existing language lab is to be neatly furnished and modernized with new computers.

A new Centralized Computing Facility (CCF) for the students is necessary as there is none in the college at the present. Hence one has to be set up in the proposed new KIIFB building after its completion.

Tablet PCs have become an essential tool particularly during the recent pandemic. The use of tablet PCs in e-learning allows learners to focus on the content, minimises the superfluous cognitive burden imposed by annotations, improves learners' comprehension and memory retention, and allows for efficient note-taking, which improves the accuracy of notes as learning aids. It is planned to set up a e-gadget library by purchasing 100 units per year. Students are expected to borrow the same, with first preference to PG students.

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
a	**Library**					
i	Discussion room ▪ Round Table and 10 chairs					1,00,000
ii	Faculty reading room ▪ Tables and chairs ▪ Journal stand,					2,00,000
iii	Research discussion room ▪ Tables and chairs, ▪ Journal stand ▪ Interactive board					4,00,000
iv	Meeting and presentation space ▪ Tables and chairs ▪ Audio-visual system ▪ Water purifier				5,00,000	
v	Lounges ▪ Furniture ▪ Bag deposit counter ▪ Water purifier	1,00,000	1,00,000		50,000	
vi	Group study room ▪ Furniture					1,50,000
vii	Private learning space ▪ 5 cubicles with tables and chairs					1,00,000

viii	E-resource center ▪ Side paneling ▪ Sound proofing, ▪ AC ▪ Video recording facility with remote controlled camera ▪ Sound system with wireless mic, ▪ Podium ▪ Interactive panel, laptop ▪ Lighting, ▪ Flooring and furnishing ▪ Library portal ▪ Software and equipment for differently abled users					20,00,000
ix	Data management center ▪ 55 computers/ laptops ▪ Digital library software ▪ E-gate register ▪ Bar code scanner ▪ Book Scanner ▪ Barcode printer ▪ Heavy duty printer ▪ Reference management software licence ▪ Plagiarism detection software, ▪ Writing tool ▪ UPS 15 kVA ▪ AC	25,00,000	10,00,000	10,00,000	10,00,000	30,00,000
x	Books and journals including E-books and E-journals, book shelves and racks	10,00,000	10,00,000	10,00,000	10,00,000	10,00,000
xi	Public address system and CCTV , networking, tables and chairs	1,00,000				20,00,000
b	**Language lab Maintenance and modernization, purchase of audio-video equipments**	5,00,000	5,00,000	5,00,000		
c	**Computer Lab**					

	Proposal for new common computer lab with ▪ 30 PC ▪ Furniture ▪ Electrical wiring and Networking, ▪ UPS (15 kVA), ▪ AC, Heavy ▪ Duty Printer			28,00,000	5,00,000	5,00,000
d	**ORICE Studio**					
	▪ Side paneling ▪ Sound proofing ▪ AC ▪ Video recording facility with remote controlled camera ▪ Sound system with wireless mic ▪ Podium ▪ Interactive panel ▪ Laptops ▪ Lighting, Flooring and furnishing	16,00,000	4,00,000			
e	**e-Gadget Library**					
	Tablet PC for Students *(for e-learning)* 128 GB Memory and 4 GB RAM	15,00,000	15,00,000	15,00,000	15,00,000	15,00,000
	TOTAL	73,00,000	45,00,000	68,00,000	45,50,000	1,09,50,000

4. Beyond Academics

The seating capacity of the present cafeteria is 25 and it has to be increased. Also it is to be modernized and kept hygienic. For that, new shelves are to be constructed and new kitchen utensils to be purchased.

Govt. Arts college is situated in a two and a half acre land and there are only one basketball court (28m by 15 m) and a multipurpose mud court (37m by 15 m) to engage students in physical activities. Moreover, the Physical Education department of the college has only a small gym to cater to the needs of 750 students. As per the future proposal, the campus is futuristically designed to accommodate 500 more students. Therefore the Physical Education department demands more space for physical and stress release activities which are essential for overall promising growth and development of the students.

At present there is a shortage of rooms/ space for club activities, union activities, and medical wellness. Hence all these rooms are to be set up in the upcoming KIIFB building.

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5

a	**Cafeteria**					
	▪ Kitchen modernisation ▪ Furnishing for providing 100 seating capacity ▪ Shelves ▪ Cooking and serving utensils, ▪ Facility for open dining	5,00,000	50,000		50,000	
b.	**Sports**					
	▪ Area for Combat sports like judo, Karate, Taekwondo, Boxing, wrestling etc.					35,00,000
c	**NCC/NSS/Clubs**					
	▪ Administrative space ▪ Discussion rooms (2 Nos) ▪ Furnishing					4,00,000
	Home theater for film club					2,00,000
	Innovation Room			10,00,000		
	Furnished room for Placement Cell				10,00,000	
d.	**Medical Room**					
	▪ Furnishing room with a cot ▪ Table and 4 Chairs, ▪ First aid kit, ▪ Emergency medical equipments		1,50,000			
e	**Students Union room**					
	▪ Furnishing room with tables (2), chairs (15) ▪ Shelf					1,00,000
f	**Jeevani room**					
	Furnishing the room with Table & chairs	10,000			50,000	
	TOTAL	5,10,000	2,00,000	10,00,000	11,00,000	42,00,000

5. Hostels

Separate hostel facility for a minimum of 25% students (roughly 200) needs to be set up. As the college has no sufficient space for the construction of the hostel, new space needs to be procured to set it up. An amount of 20,00,00,000/- (Rupees Twenty Crores only) is expected towards the purchase of land and construction in Phase 5. Land owned by a the Government near to the college like KITTS, Guest house etc will be a suitable location.

6. Quarters

A multistoried complex needs to be created with 10 quarters. An amount of Rs. 5,00,00,000/- (Rupees Five Crores only)is expected. As the college has no sufficient space for the construction of the quarters, new space needs to be procured to set it up. Land owned by a private party in front of the college will be suitable in Phase 5.

7. Playground

As there is no separate playground for the college, land is to be provided by the government for sports activities of the students. If land is provided, the proposal for constructing synthetic, all weather, outdoor, multipurpose, floodlit ground to play games like football, hockey, and handball can be submitted with an expected cost of Rs. 50,00,000/- (Rupees Fifty Lakhs only) in Phase 5.

8. Open Gym

After the completion of the RUSA building, a full fledged gym with the latest equipment can be set up on the top floor at an expected cost of Rs. 35,00,000/- (Rupees Thirty Five lakh only) in Phase 4. Also a full-fledged yoga hall with a PA system is necessary for the college and it can be set up in the new proposed KIIFB building at a cost of Rs. 2,00,000/- (Rupees Two lakh only).

9. Solar Energy

A 35 kV hybrid solar power system can be installed in the campus. This will take care of the electric power needs of the campus. Surplus power generated, if any, can be monetized through KSEB. Expertise of ANERT may be sought during installation. An estimate of Rs. 25 Lakhs is expected. Considering the present KSEB bill of roughly Rs 40,000 per month, the installation can pay back in 5.2 years.

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
1	Solar power system ▪ 5 kV in the library block	7,00,000				
2	Solar power system ▪ 15 kV in the newly constructing RUSA building			18,00,000		
3	Solar power system ▪ 15 kV in the newly constructing KIIFB building					18,00,000
	TOTAL	7,00,000		18,00,000		18,00,000

10. Human Resource Development (Training Programmes)

[I]. Teachers

Teachers need to be trained in employing creative techniques to produce the appropriate pedagogical tools for the teaching-learning process. It is envisaged that all faculty members of this institution should attend training programmes and gain new knowledge and skills in the core domain and pedagogical aspects. Faculty members will be encouraged to attend tailor-made training programmes offered by Human Resource Development Centres (HRDCs) of the Universities, Directorate of Collegiate Education (DCE), etc. Moreover, the college aims to conduct training programmes in the following domains.

1. Core Domain Topics

A. Seminars every year using funds from DCE/ other sources

- 2 Day/ 3 Day Subject Specific Seminars/ Webinars to be conducted by major departments in the college (4 Departments per year on rotation basis).
- Priority will be given to Interdisciplinary Seminars involving two departments.
- Estimated Cost : Rs. 4,00,000/- [@ Rs. 1,00,000/- per year per Seminar]

B. Faculty Enrichment Programmes

- Subject Specific FEPs
- Training on a Focus Area of the subject.
- Preferably 3 working days (if on Seminar Mode)/ 6 Working Days (if on Webinar Mode)
- Workshops intended to improve skill on an experimental technique/ usage of software are also included under this head. The number of participants in such cases will be limited to 25.
- 2 departments per year on a rotation basis.
- Collaborative programmes with premier institutes/ professional bodies are also envisaged.
- Pooling of teachers from nearby colleges (preferably 2 districts) to GAC is planned.
- Estimated Cost: Rs. 2,50,000/- [@ Rs. 1,25,000/- per year per FEP]

2. General Domain

A. Workshops/ seminars every year to be conducted by IQAC

- 2 Day Seminars/ Webinars
- Topics to be selected to develop general skills expertise. Few are listed below
    - Developing Online Educational Resources
    - Developing E-Content in 4 quadrants
    - Intellectual Property Rights
    - Total Quality Management

- Ranking of HE Institutions
- Counseling and Mentoring

- 2 Programmes per year
- Estimated Cost: Rs. 2,00,000/- [@ Rs. 1,00,000/- per year per Workshop/ Seminar]

B. Seminars/ training programmes to be conducted by specific committees in the college

- Programmes to be conducted by the Research Committee, Women's Cell, etc.
  - Gender Sensitisation
  - Tools for Preparing Research Papers, Research Methodology, etc
- 2 Programmes per year (1 per committee on rotation basis)
- Estimated Cost: Rs. 2,00,000/- [@ Rs. 1,00,000/- per year per Workshop/ Seminar]

[II]. Non-Teaching Staff

Numerous changes are happening in the higher education scenario. All stakeholders need to be made aware of the changes and must be equipped to cope up with them. Here is where the training of the non-teaching staff becomes relevant.

- Programmes of the following type can be conducted.
  a. Training for lab attenders - By Chemistry and Physics Departments
  b. Training on office tools - By Physics/ Statistics Department
  c. Taxation - By Commerce/ Economics Department
  d. UGC Placement Rules/ Ranking indicators etc - By IQAC
- Non Teaching staff from neighbouring colleges can be invited. i.e. the college shall act as a nodal centre for the training.
- 1 technical/ non-technical programme per year on rotation basis.
- Estimated Cost: Rs. 1,00,000/- [@ Rs. 1,00,000/- per year per Workshop/ Seminar]

[III]. Students

Students need to be familiarized with the different entities of Higher Education as part of achieving their graduate attributes. Tailor-made programmes are to be designed for the same. Mentioned below are a few.

- Orientation Programmes - First Year
- Core Domain Exposure - Along with Core Domain Seminars
- Training for Placement/ Soft Skill Training - By Placement Cell (4th or 5th Semester)
- Learning to Learn (Futuristic) - Equipping students to prepare themselves for the future (Envisages to include majority of the students)

- Specific training for PG students (Subject specific. 2 per year on rotation basis)
- Estimated Cost: Rs. 3,00,000/- [@ Rs. 1,00,000/- per year per Programme]

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
1	Training for Teaching Staff	11,50,000	11,50,000	11,50,000	11,50,000	11,50,000
2	Training for Non Teaching Staff	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000
3	Training for Students	3,00,000	3,00,000	3,00,000	3,00,000	3,00,000
	TOTAL	15,50,000	15,50,000	15,50,000	15,50,000	15,50,000

Performance Indicators

1. New Course

(i) Sanction a new course M.Sc. Physics (Space Science)

Requirements :

1. Infrastructure : Two classrooms + required furniture (List is included in Proposal No.7)
2. Equipments : Equipment needed for conducting the M.Sc. Lab (List is attached in Proposal No.2)
3. Human Resource : 3 Teaching Faculty + 1 Lab Assistant

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
1	MSc Physics (With specialization in Space Science)			22,10,000	20,00,000	20,00,000
2	Integrated PG in English	6,50,000	2,00,000	2,00,000	2,00,000	2,00,000
3	PG Course in Economics					2,00,000
4	Research Centre in Statistics	25,00,000				
5	Research Centre in Economics		11,00,000			
6	Research Centre in Chemistry	35,00,000	2,00,000	2,00,000	2,00,000	2,00,000
7	Research Centre in Physics			10,00,000		
	TOTAL	66,50,000	15,00,000	36,10,000	24,00,000	26,00,000

** Details attached below*

(i) Purchase of Laboratory, project equipment and furniture for MSc Physics

Sl. No	Equipment	Particulars	Purpose	No.	Unit Price
1	Arc spectra Apparatus	The apparatus consists of copper, iron, brass, zinc, carbon and aluminum electrodes, electrode stand, arc lamp power supply, standard load, and digital camera.	MSc syllabus	1	1,20,000
2	Raman Spectrometer (Portable)	A high performance Raman spectrometer, High power Laser, 3and Raman probe.Raman High Resolution spectrometer for 200-2200 cm-1 @ 785nm with 4 cm-1 resolution plus additional Thermo Electric Cooler (TEC) for increased S/N with detector integration times > 3 seconds	Doing Projects	1	12,00,000
3	UV-Vis-NIR Spectrophotometer	187nm-3200nm	Doing Projects	1	2,25,000
4	Astronomical Telescope (With motorized tracking)	Refractor type, 90mm aperture, FL 91.mm, eye piece 10,25mm	For the beginners (Doing Projects)	1	2,50,000
5	Hydrogen Spectrum Apparatus	hydrogen Gas Spectrum Tube, Constant Power Supply for hydrogen Tube	MSc syllabus	1	1,05,000
6	High temperature furnace	Tubular furnace with 4" dia tube Max temperature 1400 Degree Celsius Provision for annealing in gas atmosphere	Doing Projects	1	5,00,000
7	Ultrasonicator	For cleaning and mixing	Doing Projects	1	75,000
8	Vacuum Evaporator	Thermal evaporator with vacuum chamber with molybdenum boats for coating metals like, Au, Cu, Al etc. with suitable DC power supply.	Doing Projects	1	7,00,000
9	Vacuum pumps	Diaphragm pump and Turbo molecular pump	Doing projects	1 *each*	10,00,000
10	Soldering station	Soldering station with digital control and hot air gun for doing soldering of fine electronic components	Doing Projects	1	10,000
11	Digital Multimeter	CAT III 600 V safety, with Resistance, Capacitance, Voltage (ac and DC) and Current (ac and DC) measurements	Syllabus	30	5,000
12	Notebook PC	13.3'' Notebook, Intel Core i5, 8GB DDR3/500GB SSD, Wifi/Bluetooth, HDMI 1080p		30 *(For students)*	50,000/ *piece*

13	Ceiling mounted camera	Ceiling mounted variable focus camera with remote control, with noise cancelling microphone system		1	75,000
14	Tables and chairs	Wooden Table and armchair for students		30	3,00,000

(ii) Purchase of furniture for Integrated PG course in English

Sl. No	Item	Description	No.	Total Cost
1	Table and Chair	Wooden Table and armchair for 25 students per year	25	2,50,000
2	Interactive Display panel	One per classroom per year	1	2,00,000
3	Books	Purchase of books per year		2,00,000

(iii) Purchase of furniture and equipment for research centres

Sl. No	Item	Description	No.	Total Cost
1	Table and Chair	Wooden Table and armchair	30	5,00,000
2	Computer system	20 high end PC	20	16,00,000
3	Books and journals	Purchase of books and journals		30,00,000
4	Computing softwares for research	Softwares like Mathematica, Mathcad, SPSS, Gaussian etc.		15,00,000
5	Minor equipments (Chemistry)	Rotor evaporator, distillation unit, pH meter, Platinum crucibles, etc, magnetic stirrers with heating (minimum 500°C)		5,00,000
6	Major equipments (Chemistry)	UV visible spectrophotometer with integrating sphere attachments		10,00,000

2. Alumni Engagement

Building meaningful ties with students and alumni is critical for strategic growth and advancement of higher education programmes. It will be advantageous if the services of alumni are pooled for the welfare of the students. The Alumni association of the college will be registered and opportunity for alumni-student interaction will be made. The alumni will be engaged in a number a ways, to cite a few are

- Provide training to students – Career guidance/ Higher education
- Links to invite companies for campus placement
- Donations and Student scholarships
- Student utilities (Tablet PCs, Books, Wheel Chairs etc)

3. Industry Collaboration

- Collaboration possibilities of Biotechnology Department with Industry is sought for training, internships and placement for PG students.
- Collaboration with CA firms/ tax practitioners is sought for Commerce Students.

4. Green Campus

Sustainable and eco-friendly practices are to be combined with education. The green campus concept allows an institution to lead the way in reinventing its environmental culture and forging new paradigms by developing sustainable solutions with reference to environmental, social, and economic requirements. The proposed plans include landscaping the front side of the college (heritage building) and the canteen. This will improve the aesthetic appearance of the college. The existing drainage ducts are to be refurbished and clogs are to be removed. New ducts are to be added to meet the growing demand. The effluents from the Science laboratories are to be processed and neutralized before they are fed into the public drainage system. A chemical waste disposal tank is thus a need of the hour. Other initiatives in this line are to ameliorate the medicinal garden in the campus, pruning the trees in the campus both in the angle of safety and aesthetics. Installation of a rainwater harvesting system in the campus is also a priority.

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
1	Landscaping - front side of heritage building and canteen	5,00,000				2,00,000
2	Constructing new and Clearing the existing drainage ducts in the campus	2,00,000		1,00,000		1,00,000
3	Waste chemical disposal tank (Chemistry + Biotechnology)	2,00,000				
4	Pruning of trees in the campus	30,000	30,000	30,000	30,000	30,000
5	Naming Flora and Fauna of the campus		10,000			
6	Renovation of walkway, parking area, repair works in the building	5,00,000				
7	Ameliorating the medicinal garden in the campus	1,00,000				
8	Installation of rainwater harvesting system in the campus		2,00,000			
9	Construction of security cabin near the main gate and furnishing		10,00,000			
10	Installing automatic barrier gate near main gate for controlling vehicles entry			2,50,000		
	TOTAL	15,30,000	12,40,000	3,80,000	30,000	3,30,000

5. Zero Waste Campus

The campus is suffering from lack of sufficient open space and hence a well thought out solution for waste disposal is to be envisaged. The initiatives are to be eco friendly as well. Plans include installation of a storage pit for dry leaves (half inch wire mesh cabins), Bins for Plastics, Up-keeping the existing Biogas plant/ adding a new biogas plant unit. New Napkin incinerators to be made part of the Women's Room.

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
1	Storage pit for dry leaves	75,000		75,000		
2	Solid waste management system	75,000				75,000
3	Biogas plant up-keeping	2,00,000				
4	Napkin Incinerator			1,00,000		
5.	Periodic maintenance	25,000	25,000	25,000	25,000	25,000
	TOTAL	3,75,000	25,000	2,00,000	25,000	1,00,000

6. Inclusions

Inclusion of differently abled students are an important aspect of diversity that is frequently ignored. Individuals with impairments are frequently well-versed in the use of assistive technologies to boost productivity. It is the responsibility of higher education institutions to provide them with enough support. Hearing impaired and visually impaired students and teachers are not uncommon in the college campuses these days. Differently abled equity refers to the treatment of differently abled people in such a way that they have the same chance of academic and career success as people who are not so. The college is committed to make necessary support systems for including them into the mainstream of campus life.

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
1	Support for visually impaired students in library	3,00,000	3,00,000	3,00,000	3,00,000	3,00,000
2	Providing navigational aids for people with visual impairment in the campus	2,00,000	2,00,000	2,00,000	2,00,000	2,00,000
3	Purchase of laptop for visually impaired students	2,00,000	2,00,000	2,00,000		
4	Braille writing slates	25,000	25,000	25,000	25,000	25,000
5	Purchase of books in Braille	10,000	10,000	10,000	10,000	10,000
6	Hands free magnifiers	10,000	10,000	10,000	10,000	10,000
7	Book Reader for visually impared	35,000	35,000	35,000	35,000	35,000
8	Purchase of wheelchair *(2 in each building)*	30,000	30,000		30,000	30,000

9	Lift and ramps in the buildings	60,00,000			60,00,000	
10	Tactile paving in the campus	1,00,000		1,00,000		1,00,000
	TOTAL	69,10,000	8,10,000	8,80,000	66,10,000	7,10,000

7. Community Engagement

Community engagement is a method of advancing institutional goals such as increasing student productivity, learning values, aligning with workforce demands, and attaining equity in student participation. It's also an opportunity for us to give back to our community. It's also a means for the College to that it values the community very much and wants to engage with them to accomplish our common goals. We're searching for ways to incorporate the community into every aspects of our activities. Few plans are as follows

- Tissue culture training with the support of Biotechnology Department
- Mushroom Cultivation training with the support of Botany Department
- Soap/ Sanitizer manufacture with the support of Chemistry Department
- LED Manufacture training with the support of Physics Department
- Coaching classes for community engagement by English Department
- Surveys with the help of Commerce and Economics Departments

Sl. No	Description	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
1.	Materials/Chemical Cost	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000
2.	Refreshments	25,000	25,000	25,000	25,000	25,000
3.	Publicity Expenses	5,000	5,000	5,000	5,000	5,000
4.	Overhead Expenses	5,000	5,000	5,000	5,000	5,000
	TOTAL	1,35,000	1,35,000	1,35,000	1,35,000	1,35,000

Total Estimates						
Sl. No	Description	Phase 1 2022-23	Phase 2 2023-24	Phase 3 2024-25	Phase 4 2025-26	Phase 5 2026-27
Infrastructure						
1.	Administrative	1,76,65,000	52,25,000	14,20,000	20,80,000	1,30,20,000
2.	Academic	1,06,50,000	58,50,000	79,00,000	47,50,000	1,51,00,000
3.	Knowledge Hub	73,00,000	45,00,000	68,00,000	45,50,000	1,09,50,000
4.	Beyond Academics	5,10,000	2,00,000	10,00,000	11,00,000	42,00,000
5.	Hostels					20,00,00,000
6.	Quarters					5,00,00,000
7.	Playground					50,00,000
8.	Open Gym				37,00,000	
9.	Solar Energy	7,00,000		18,00,000		18,00,000
10.	HR Development	15,50,000	15,50,000	15,50,000	15,50,000	15,50,000
Performance Indicators						
1.	New Course	66,50,000	15,00,000	36,10,000	24,00,000	26,00,000
2.	Alumni Engagement					
3.	Industry Collaboration					
4.	Green Campus	15,30,000	12,40,000	3,80,000	30,000	3,30,000
5.	Zero Waste Campus	3,75,000	25,000	2,00,000	25,000	1,00,000
6.	Inclusions	69,10,000	8,10,000	8,80,000	66,10,000	7,10,000
7.	Community Engagement	1,35,000	1,35,000	1,35,000	1,35,000	1,35,000
	TOTAL	5,39,75,000	2,10,35,000	2,56,75,000	2,69,30,000	30,54,95,000
	GRAND TOTAL	43,31,10,000 [Rupees Forty Three Crore Thirty One Lakhs and Ten Thousand Only]				

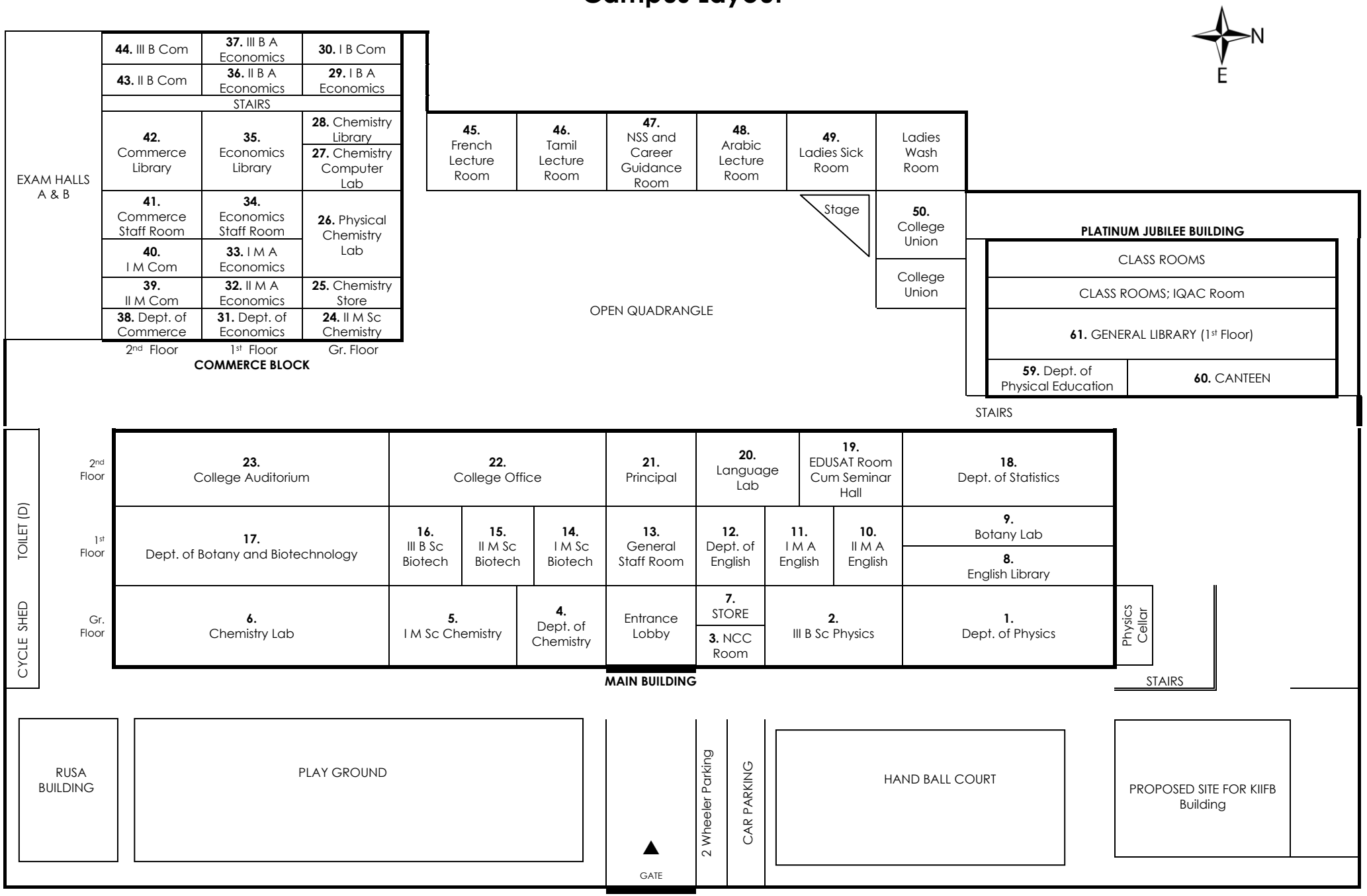
Campus development – Plans which need Government Intervention

1. The college campus has an ideal ambience and it is situated in the heart of the Thiruvananthapuram city in approximately 2.3 acres. The main attraction in the college campus is the three storied heritage building with its Victorian elegance. The building is nearly 100 years old. It needs urgent maintenance under professional guidance to preserve its heritage value. This includes civil, electrical and sanitary works. The centenary year of the college is near and the next NAAC visits are also going to happen in the very near future. Hence utmost priority needs to be given for the maintenance of the heritage building and is to be completed in Phase I itself.
2. Repainting and other repair works of the Commerce Block and Library Block are also to be done urgently before the forthcoming NAAC visit
3. Further development of the college is possible only if land space is available in the campus. Maximum utility of the land has been done within the boundaries of the regulations. Future expansion is a must for securing good grades in NAAC accreditation. About 40 cents of land next to the college (at the back side), now in the custody of the Government College for Teacher Education if procured can solve the problem to a great extent. The said land is currently left unutilized. An intervention from the higher authorities is expected in this regard.

GOVERNMENT ARTS COLLEGE

Thiruvananthapuram 695014

Campus Layout



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