



শিক্ষা নিয়ে গড়বো দেশ
শেখ হাসিনার বাংলাদেশ



ইনোভেশন টিম

হাজী মোহাম্মদ দানেশ বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়, দিনাজপুর

স্মারক নং- ২০৮৮৮/১০৮৮/১০৮৮/২৬

তারিখ: ২৪/০৩/২০২৪

দ্বিজেন চন্দ্র দাস

সিনিয়র সহকারী পরিচালক (অতিরিক্ত দায়িত্ব) ও

ইনোভেশন ফোকাল পয়েন্ট

ইউজিসি, ঢাকা-১২০৭

মহোদয়

এ বিশ্ববিদ্যালয়ের ইনোভেশন টিম কর্তৃক আয়োজিত ১০,১১,১২ মার্চ ২০২৪ এ স্মার্ট বাংলাদেশ বিনির্মাণ কর্ম-পরিকল্পনা বিষয়ক কর্মশালা অনুষ্ঠিত হয়। উক্ত কর্মশালার মাধ্যমে প্রস্তুতকৃত কর্ম-পরিকল্পনা পরবর্তী প্রয়োজনীয় কার্যার্থে এতদসঙ্গে প্রেরণ করা হলো।

সংযুক্তি: বর্ণনামতে


ড. মো. আজিজুল হক

সহযোগী অধ্যাপক,

বিএমবি বিভাগ ও

ফোকাল পয়েন্ট ও সদস্য সচিব,

ইনোভেশন টিম, হাবিপ্রবি, দিনাজপুর।



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স্মারক নং-হাবিপ্রবি/আইআরটি/ইনোটি/২০২২/১৬

তারিখঃ ০৭/০৩/২০২৪ খ্রি.

বিজ্ঞপ্তি

বিষয়ঃ স্মার্ট বাংলাদেশ বিনির্মাণে অত্র বিশ্ববিদ্যালয়ের ২০২৪-২৫ অর্থবছর এর কর্মপরিকল্পনা প্রণয়নের জন্য কর্মশালায় অংশগ্রহণ প্রসঙ্গে।

এ বিশ্ববিদ্যালয়ের ইনোভেশন টিমের তত্ত্বাবধানে ই-গভর্ন্যান্স ও উদ্ভাবন কর্মপরিকল্পনা ২০২৩-২৪ এর কর্মসম্পাদন সূচক ৬.১.২ লক্ষ্যমাত্রা পূরণের লক্ষ্যে স্মার্ট বাংলাদেশ বিনির্মাণে অত্র বিশ্ববিদ্যালয়ের এর কর্মপরিকল্পনা প্রণয়ন প্রস্তুত করতে এবং উহার সার্বিক কর্মকান্ড সম্পন্ন করতে ইনোভেশন টিমের সকল সদস্যবৃন্দগণ এবং আইটি সেল কোঅর্ডিনেটর সহ, আইটি সেল এর ২ জন কম্পিউটার প্রোগ্রামার কে নিয়ে ২ টি কর্মশালা আইআরটি কনফারেন্স রুমে অনুষ্ঠিত হবে। কর্মশালায় প্রধান অতিথি হিসেবে অত্র বিশ্ববিদ্যালয়ের মাননীয় ভাইস-চ্যান্সেলর প্রফেসর ড. এম. কামরুজ্জামান উপস্থিত থাকতে সদয় সম্মতি জ্ঞাপন করেছেন। উক্ত কর্মশালায় সংযুক্তি তালিকার সকলকে যথাসময়ে অংশগ্রহণের জন্য অবহিত করা হলো।

প্রথম কর্মশালা: ফিজিবিলিটি স্টাডি, পরিকল্পনা, রিভিউ/ প্রতিষ্ঠানের সাথে আলোচনা, ডিজাইন, মুদ্রণ, ইত্যাদি

তারিখ: ১০,১১,১২ মার্চ ২০২৪

দ্বিতীয় কর্মশালা: কর্মকৌশল, (সময়, ভ্রমণ ও খরচ), সংশ্লিষ্ট কর্মকর্তা ও ব্যক্তির সাথে আলোচনা, প্রযুক্তি সক্ষমতা যাচাই, বাজেট প্রণয়ন, মুদ্রণ, বই বাদাহী, এডিটিং, ইত্যাদি

তারিখ: ১৮,১৯,২০ মার্চ ২০২৪

স্বাক্ষরিত/-

প্রফেসর ড. এস. এম হারুন-উর-রশীদ

আহবায়ক

ইনোভেশন টিম

হাবিপ্রবি, দিনাজপুর

স্মারক নং-হাবিপ্রবি/আইআরটি/ইনোটি/২০২২/১৬

তারিখঃ ০৭/০৩/২০২৪ খ্রি.

অনুলিপিঃ সদয় অবগতি ও কার্যার্থে (জ্যেষ্ঠতার ক্রমানুসারে নয়),

১। কর্মশালার সকল সদস্যবৃন্দ

২। পি এস টু ভিসি (ভিসি মহোদয়ের সদয় অবগতির জন্য), হাবিপ্রবি, দিনাজপুর।

৩। পি এ টু রেজিস্ট্রার (রেজিস্ট্রার মহোদয়ের সদয় অবগতির জন্য), হাবিপ্রবি, দিনাজপুর।

৪। অফিস নথি।

09/06/2024

প্রফেসর ড. এস. এম হারুন-উর-রশীদ

আহবায়ক

ইনোভেশন টিম

হাবিপ্রবি, দিনাজপুর



শিক্ষা নিয়ে গড়বো দেশ
শেখ হাসিনার বাংলাদেশ



ইনোভেশন টিম

হাজী মোহাম্মদ দানেশ বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়, দিনাজপুর

আগামী ১০,১১,১২ মার্চ ২০২৪ এবং ১৮,১৯,২০ মার্চ ২০২৪ এ স্মার্ট বাংলাদেশ বিনির্মাণে অত্র বিশ্ববিদ্যালয়ের ২০২৪-২৫ অর্থবছর এর কর্মপরিকল্পনা প্রণয়নের জন্য কর্মশালায় অংশগ্রহণকারীবৃন্দের তালিকাঃ

অংশগ্রহণকারীঃ ইনোভেশন টিমের সকল সদস্যবৃন্দগণ এবং আইটি সেল কোঅর্ডিনেটর সহ, আইটি সেল এর ২ জন কম্পিউটার প্রোগ্রামার

ইনোভেশন কমিটি (জ্যেষ্ঠতার ক্রমানুসারে নয়) :

ক্রমিক নং	নাম ও পদবী	কমিটিতে পদবী
১	প্রফেসর ড. এস.এম. হারুন-উর-রশীদ, প্যাথলজি এন্ড প্যারাসাইটোলজি বিভাগ, হাবিপ্রবি	আহ্বায়ক
২	প্রফেসর ড. মো. শাহাদৎ হোসেন খান, মৃত্তিকা বিজ্ঞান বিভাগ, হাবিপ্রবি	সদস্য
৩	প্রফেসর ড. মো. মফিজউল ইসলাম, ডীন, ইঞ্জিনিয়ারিং অনুষদ, হাবিপ্রবি	সদস্য
৪	প্রফেসর ড. মো. মামুনুর রশীদ, প্রক্টর, হাবিপ্রবি	সদস্য
৫	প্রফেসর ড. মো. মাহাবুব হোসেন, পরিচালক, ছাত্র-পরামর্শ ও নির্দেশনা বিভাগ, হাবিপ্রবি	সদস্য
৬	জনাব মো. তরিকুল ইসলাম, তত্ত্বাবধায়ক প্রকৌশলী, হাবিপ্রবি	সদস্য
৭	উত্তম কুমার রায়, ডকুমেন্টেশন অফিসার, কেন্দ্রীয় লাইব্রেরী	সদস্য
৮	মো. রাসেদুল ইসলাম, কম্পিউটার প্রোগ্রামার, আইটি সেল শাখা, হাবিপ্রবি	বিকল্প ফোকাল পয়েন্ট
৯	ড. মো. আজিজুল হক, সহযোগী অধ্যাপক, বি.এম. বি. বিভাগ	ফোকাল পয়েন্ট ও সদস্য সচিব

আইটি সেল হতে সদস্যবৃন্দ

ক্রমিক নং	নাম ও পদবী
১	প্রফেসর মো. মেহেদী ইসলাম, কো-অর্ডিনেটর, আইটি সেল, হাবিপ্রবি
২	মো. ওয়ালিদ ইসলাম, সিনিয়র প্রোগ্রামার, আইটি সেল, হাবিপ্রবি
৩	মো. তানভির রহমান, আইটি সেল, হাবিপ্রবি

স্মার্ট বাংলাদেশ বিনির্মাণ বিষয়ক কর্মপরিকল্পনা

প্রতিষ্ঠানের নাম: হাজী মোহাম্মদ দানেশ বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়, দিনাজপুর

ভিশন: উচ্চ শিক্ষার মানোন্নয়নে স্মার্ট ও গবেষণা ভিত্তিক উন্নত বিশ্ববিদ্যালয় গঠন।

মিশন: স্মার্ট বাংলাদেশের দর্শন, প্রধানমন্ত্রী শেখ হাসিনার অবলোকনে, ২০৪১ সালে বাংলাদেশকে একটি উন্নত এবং প্রযুক্তিগতভাবে অগ্রগতিশীল দেশে পরিণত করা। এই লক্ষ্যের পেছনে প্রযুক্তি দক্ষতা এবং ডিজিটাল পরিষেবা গুরুত্বপূর্ণ ভূমিকা পালন করবে। এই লক্ষ্যের মৌলিক দিকগুলির মধ্যে স্মার্ট সিটিজেন, স্মার্ট অর্থনীতি, স্মার্ট সরকার, এবং স্মার্ট সমাজ রয়েছে। উচ্চ শিক্ষার মানোন্নয়নে স্মার্ট ও গবেষণা ভিত্তিক উন্নত বিশ্ববিদ্যালয় গঠন। টেকসই উন্নয়ন অভীষ্ট-২০৩০, উন্নত দেশের সারিতে উত্তীর্ণ হওয়ার রূপকল্প-২০৪১, স্বাধীনতার শতবর্ষ উৎযাপন রূপকল্প-২০৭১, ডেল্টা পরিকল্পনা-২১০০ এবং ৪র্থ শিল্প বিপ্লব মোকাবেলায় কৌশলগত দক্ষতা অর্জনের লক্ষ্যে মানসম্মত তথ্য প্রযুক্তি নির্ভর উচ্চশিক্ষা ও গবেষণা নিশ্চিত করে দক্ষ জনশক্তি তৈরির মাধ্যমে স্মার্ট বাংলাদেশ বিনির্মাণ।

১. দেশীয় ও আন্তর্জাতিক কর্মবাজারের জন্য গ্রাডুয়েটদের প্রযুক্তিগত দক্ষতা উন্নয়ন নিশ্চিতকরণ;
২. দক্ষ মানব সম্পদ তৈরির পাশাপাশি জাতীয় স্বার্থে মানসম্পন্ন গবেষণা নিশ্চিতকরণ;
৩. শিল্প প্রতিষ্ঠান এবং সরকারের মধ্যে একটি অর্থবহ, ভারসাম্যপূর্ণ এবং শক্তিশালী সহযোগিতা প্রতিষ্ঠাকরণ।

(১)	(২)	(৩)	(৪)	(৫)	(৬)	(৭)	(৮)	(৯)	(১০)
ক্রমিক	স্মার্ট বাংলাদেশ অর্জনে আপনার বিশ্ববিদ্যালয়ের করণীয় কি ?	প্রত্যাশিত ফলাফল কি হবে ?	করণীয় বাস্তবায়িত হলে কোন সমস্যার সমাধান হবে ?	সংশ্লিষ্ট স্মার্ট উদ্ভ/উদ্ভসমূহ (স্মার্ট সিটিজেন/ গভর্নেন্ট/ সোসাইটি/ইকো নমি)	২০২৫ সালের মধ্যে কতটুকু বাস্তবায়িত হবে?	২০২৮ সালের মধ্যে কতটুকু বাস্তবায়িত হবে?	২০৪১ সালের মধ্যে কতটুকু বাস্তবায়ি ত হবে?	বাস্তবায়নকারী দপ্তর/সংস্থা	সহ যোগী দপ্তর/ সংস্থা
1.	High-Speed Campus Networking	Upgraded network infrastructur e with Wi-Fi access points and network switches.	HSTU will deploy a high-speed campus networking infrastructure comprising fiber-optic cables, Wi-Fi access points, and network switches to provide seamless connectivity across the campus covering all the entities. This network will support high-bandwidth applications such as online learning platforms, video conferencing, and research collaborations. Advanced network management tools will ensure the quality of service, prioritize critical traffic, and detect and mitigate network congestion or security threats in real-time.	Smart Citizens/ Smart Governm ent/ Smart Society	50%	100%	100%	IT cell, Planning Development and Works Section	Planning Development and Works Section

2.	Smart Classroom Implementation	Smart classroom technology including interactive displays and digital whiteboards .	HSTU's smart classrooms will be equipped with state-of-the-art technologies such as interactive displays, digital whiteboards, and lecture capture systems to facilitate engaging and interactive teaching experiences. Automated scheduling systems will optimize classroom allocation and resource utilization, while IoT-enabled devices will enhance accessibility and convenience for students and faculty. Integration with learning management systems will enable seamless access to course materials, assignments, and collaborative tools, promoting active learning and knowledge retention.	Smart Citizens/ Smart Governm ent/ Smart Society	20%	50%	100%	Planning Development and Works Section	Planning Development and Works Section
3.	Smart Course Management System (CMS) Development	Web application with student portal for course browsing, registration, and scheduling.	HSTU's Course Management System (CMS) will revolutionize the way courses are offered and managed, providing benefits such as improved accessibility, enhanced efficiency, better student engagement as well as data-driven decision-making. The CMS will be a comprehensive platform designed to streamline the management of academic courses offered by the university. The system will provide a centralized hub where	Smart Citizens/ Smart Governm ent/ Smart Society	50%	100%	100%	Planning Development and Works Section	Planning Development and Works Section

			faculty members, administrators, and students can access course-related information, resources, and communication tools. The CMS will feature a robust course catalog that lists all available courses, including detailed descriptions, prerequisites, and credit hours. The course offering entity can easily update course information and add new courses. The Faculty members will have access to a dedicated dashboard where they can manage course materials, upload lectures, create assignments, and communicate with students. The CMS will support multimedia content, discussion forums, and virtual office hours to facilitate effective teaching and learning. Students will use the CMS portal to view their course schedules, access lecture notes and assignments, participate in online discussions, and submit coursework. The system will provide notifications for upcoming deadlines, class cancellations, and important announcements. Moreover, the CMS will include built-in grading and assessment tools that allow faculty members to grade assignments, quizzes, and exams online. Students will receive timely feedback on their performance, and grades will be automatically recorded in the system for easy tracking.							
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4.	Smart Exam and Result Management System Development	Online platform with secure authentication for exam scheduling, grading, and result publication.	HSTU's smart exam management system will digitize and streamline the entire exam process, from scheduling to result publication. The exam controller can create and manage exams online, the Faculty can call and manage the entire enrollment process, the faculty members can generate question papers, and set up grading rubrics. Students will have access to personalized exam schedules, exam guidelines, and resources through an online portal. The system will automate grading, reduce turnaround time for results, and provide detailed feedback to students. Moreover, it will ensure data security and integrity, preventing unauthorized access to exam materials and results.	Smart Citizens/ Smart Government/ Smart Society	50%	100%	100%	IT cell	Planning Development and Works Section
5.	Smart Certificate and Transcript Management System Development	Blockchain-based platform integrated with a web and mobile application for issuance, storage, and verification of graduation certificates	HSTU will implement a blockchain-based solution for online certificates and transcripts, ensuring secure and tamper-proof verification of graduation credentials. Through this system, each student's academic achievements will be recorded on the blockchain, providing a transparent and immutable digital record of their qualifications. Employers and academic institutions can easily verify the authenticity of certificates and transcripts online, eliminating the need for manual verification processes. This	Smart Citizens/ Smart Government/ Smart Society	-	20%	100%	Planning Development and Works Section	Planning Development and Works Section

		and transcripts.	innovative solution will enhance the credibility and integrity of HSTU's academic credentials, while also providing graduates with convenient access to their official documents anytime, anywhere.						
6.	Smart Grant, Scholarship, and Stipend Management System Development	Web application with database integration for online application, verification, and disbursement.	HSTU's smart financial aid management system will centralize the management of grants, scholarships, and stipends, offering a seamless experience for both applicants and administrators. Students can apply for financial aid through an online portal, where they can submit required documents and track the status of their applications. The system will automate eligibility checks, review processes, and disbursements, ensuring timely and accurate allocation of funds. Additionally, it will provide transparency into the application process and enable efficient communication between applicants and administrators.	Smart Citizens/ Smart Government/ Smart Economy/ Smart Society	-	50%	100%	IRT	Planning Development and Works Section
7.	Smart Hall and Dining/Canteen Management System Development	Web and mobile application with IoT integration for seat allocation, meal	HSTU's smart hall and dining/canteen management system will optimize the operations of campus accommodation and dining facilities. Students can use an online portal to view seat availability, make seat allocation applications, and make payments securely. The system will streamline check-in and check-out	Smart Citizens/ Smart Government/ Smart Society	60%	80%	100%	Hall office	Planning Development and Works Section

		ordering, and inventory management	processes, automate billing and invoicing, and provide real-time updates on seat availability. In the dining, students can place orders, make payments, and provide feedback on food quality and service through a mobile app. Automated inventory management will ensure adequate stock levels and minimize food wastage, enhancing the overall dining experience.						
8.	Smart Central Firm, Farmer and Veterinary Service Management System Development	Web and mobile applications with cloud storage for service requests, scheduling, and data analytics.	HSTU's smart service management system will integrate firm, farmer, and veterinary services into a centralized platform, promoting efficiency and accessibility. Farmers can access agricultural resources as well as veterinary services through a dedicated online portal. The system will facilitate service requests, appointments, and consultations, streamlining communication between service providers and stakeholders. Advanced analytics will enable HSTU to analyze service trends, identify areas for improvement, and tailor services to meet the needs of the community. Additionally, the system will promote collaboration and knowledge-sharing among stakeholders, fostering innovation and sustainable agricultural practices.	Smart Citizens/ Smart Governm ent/ Smart Economy/ Smart Society	-	20%	100%	Central Firm	Planning Development and Works Section

9.	Smart e-Learning Management System Development	Online E-learning platform with multimedia content delivery and interactive features.	HSTU's smart e-learning management system will revolutionize the delivery of educational content and training programs both for the university's regular courses as well as various vocational and short courses. Through an intuitive online platform, students and faculty can access a vast array of digital resources, including lectures, tutorials, quizzes, and assignments. The system will support various learning formats, such as videos, interactive modules, and simulations, catering to diverse learning styles and preferences. Advanced analytics will track learner progress, identify areas for improvement, and provide personalized recommendations for further study. Additionally, the system will facilitate collaboration and interaction among students and instructors through discussion forums, group projects, and virtual classrooms, fostering an engaging and dynamic learning environment.	Smart Citizens/ Smart Government/ Smart Society	20%	50%	100%	IRT	Planning Development and Works Section
10.	Smart Library Management System Development	Library management software with RFID technology for	HSTU's smart library management system will modernize library operations, enhancing access to resources and improving user experience. Students and faculty can search for books, journals, and digital	Smart Citizens/ Smart Government/ Smart	80%	100%	100%	Central Library	Planning Development and Works Section

		cataloging, circulation, and inventory tracking.	resources through an intuitive online catalog. The system will automate circulation, reservation, and renewal processes, reducing wait times and administrative overhead. Advanced search functionalities and recommendation algorithms will help users discover relevant resources efficiently. Additionally, the system will provide analytics on usage patterns and resource popularity, enabling informed collection development decisions and optimizing resource allocation.	Society					
11.	Smart Health Center Management System Development	Web and mobile application for appointment scheduling, medical record management, and telemedicine consultations.	HSTU's smart health center management system will provide an integrated platform for managing medical services and promoting wellness on campus. Students and staff can schedule appointments, access medical records, and communicate with healthcare providers through a secure online portal. The system will streamline patient registration, triage, and treatment processes, reducing wait times and improving patient satisfaction. Automated reminders and notifications will promote preventive care measures and encourage healthy behaviors. Additionally, the system will support telemedicine consultations, enabling remote access to healthcare services and	Smart Citizens/ Smart Government/ Smart Society	-	50%	100%	HSTU medical centre,	Planning Development and Works Section

			expanding the reach of the health center.						
12.	Smart Career Advisory Service Management System Development	Online platform for career resources, job listings, and mentorship programs with alumni network integration	HSTU's smart career advisory service management system will offer comprehensive support for career planning and development. Students can access career resources, job listings, and skill-building workshops through an online platform. The system will provide personalized career assessments, counseling sessions, and mentorship opportunities to help students explore career options and make informed decisions. Alumni networks and industry partnerships will facilitate networking opportunities and internship placements. Advanced analytics will track student career trajectories and outcomes, enabling HSTU to evaluate the effectiveness of career services and tailor offerings to meet student needs.	Smart Citizens/ Smart Governm ent/ Smart Society	-	30%	100%	CADS	Planning Development and Works Section
13.	Smart File & Archive Document Management System Development	Cloud-based document management system with centralized storage,	HSTU's smart file archive and document management system will centralize document storage, organization, and retrieval, ensuring efficient access to institutional records and resources. Staff can upload, categorize, and search for	Smart Citizens/ Smart Governm ent/ Smart	-	30%	100%	Registrar office	Planning Development and Works Section

		version control and search functionality .	documents through an intuitive interface, reducing time spent on manual document management tasks. Version control and access permissions will ensure data integrity and security, preventing unauthorized access or modifications. Advanced search capabilities and metadata tagging will enable quick and accurate retrieval of documents, facilitating information sharing and collaboration across departments.	Society					
14.	Smart Transport and Vehicle Management System Development	GPS-enabled tracking system with web and mobile applications for vehicle scheduling, maintenance , and route optimization .	HSTU's smart transport and vehicle management system will optimize the utilization of university vehicles and enhance transportation services for students and staff. Through a dedicated online portal or mobile app, users can book transportation services, track vehicle locations, and receive real-time updates on arrival times. The system will automate vehicle scheduling, maintenance, and fuel tracking, ensuring fleet reliability and cost-effectiveness.	Smart Citizens/ Smart Governm ent/ Smart Economy/ Smart Society	-	20%	100%	Planning Development and Works Section	Transport & Engineering, Planning Development and Works Section
15.	Smart My Uni Service (One Stop Service) Portal	Comprehensive portal facilitating both the web and	HSTU's My Uni Service portal will serve as a centralized platform for students, faculty, and staff to access a wide range of university services and resources in one place. Through a single	Smart Citizens/ Smart Governm ent/ Smart	50%	100%	100%	IT cell, Registrar office, Exam controller office	

	Development	mobile application with single sign-on access to all university services and resources.	sign-on interface, users can navigate various service categories, including academic, administrative, financial, and extracurricular activities. The portal will provide personalized dashboards for each user role, displaying relevant information, tasks, and notifications based on individual preferences and permissions. Users can perform various tasks, such as course registration, fee payments, leave requests, and event registration, through the portal, streamlining processes and reducing administrative burden. Additionally, the portal will feature self-service options, knowledge bases, and FAQs to empower users to find answers and solutions independently. Through continuous improvement and user feedback mechanisms, HSTU's My Uni Service portal will evolve to meet the changing needs and expectations of the university community, enhancing overall user experience and satisfaction.	Economy/ Smart Society					
16.	Smart Postgraduate Admission System Development	Online portal with digital document management for application	HSTU's digitized postgraduate admission system will streamline the application process, document verification, and communication with applicants through an online portal and automated workflows. Prospective students will submit their applications electronically, and digital document	Smart Citizens/ Smart Government	20%	50%	100%	IT cell, Registrar office, Post-graduate studies office	

		processing.	management systems will facilitate efficient processing and verification of academic credentials. Automated notifications and status updates will keep applicants informed of their application status, while online interviews and assessments will enable remote evaluation of candidates. Integration with HSTU's student information system will ensure a seamless transition for admitted students into their respective postgraduate programs.						
17.	Smart Procurement Management System Development	A Web-based procurement portal with features for requisition, vendor management, purchase order generation, and automated approval workflows.	HSTU's smart procurement management system will streamline the entire procurement lifecycle, from requisition to payment. Through a centralized digital platform, HSTU will automate procurement workflows, including purchase requisitions, approvals, supplier selection, and purchase order generation. This system will enhance transparency by providing real-time visibility into procurement activities, ensuring compliance with procurement policies and regulations. By leveraging data analytics, HSTU will optimize vendor performance, negotiate better terms, and identify cost-saving opportunities. Additionally, automated alerts and notifications will improve communication and facilitate timely	Smart Government/ Smart Economy	-	20%	100%	Planning Development and Works Section	Planning Development and Works Section

			decision-making, ultimately enhancing operational efficiency and reducing procurement costs.						
18.	Smart Asset Management System Development	An IoT-based asset tracking system integrated with a centralized database accessible through a web application and mobile app.	HSTU's smart asset management system will utilize cutting-edge technologies such as RFID, sensors, and IoT to efficiently track, monitor, and manage university assets. Through a centralized asset management database, HSTU will have complete visibility into the asset lifecycle, including acquisition, depreciation, maintenance, and disposal. Predictive analytics will enable proactive maintenance, minimizing downtime and extending asset lifespan. Furthermore, automated asset audits and compliance checks will ensure regulatory compliance and mitigate risk. By optimizing asset utilization and reducing asset-related costs, HSTU will enhance operational efficiency and maximize return on investment.	Smart Government/ Smart Economy	-	20%	100%	Farm division	Planning Development and Works Section
19.	Smart Inventory Management System Development	An IoT platform with RFID/barcode/QR code scanning and real-	HSTU's smart inventory management system will revolutionize inventory control processes, ensuring accurate inventory tracking, efficient replenishment, and optimal stock levels. Leveraging RFID/barcode/QR code scanning technology and automated	Smart Government/ Smart Economy/ Smart Society	20%	50%	100%	Farm division	Planning Development and Works Section

		time inventory tracking.	inventory tracking software, HSTU will maintain real-time visibility into inventory levels, locations, and movements across multiple campus facilities. Automated inventory replenishment algorithms will analyze consumption patterns and forecast demand, enabling proactive inventory management and minimizing stockouts. Integration with suppliers and vendors will streamline procurement processes, reducing lead times and improving supply chain efficiency. By implementing automated alerts and notifications, HSTU will mitigate inventory-related risks and ensure timely action, ultimately improving operational efficiency and reducing costs.						
20.	Smart HRM (Human Resource Management) System Development	An integrated HRMS with modules for recruitment, onboarding, performance management, and payroll processing, accessible via web and mobile	HSTU's smart human resource management system will modernize HR processes, enhancing efficiency, accuracy, and employee satisfaction. Through an integrated HR platform, HSTU will automate key HR functions, including recruitment, onboarding, performance management, and payroll processing. Self-service portals will empower employees to manage their personal information, leave requests, and performance goals, reducing administrative burden and promoting	Smart Citizens/ Smart Governm ent/Smart Society	-	20%	100%	Registrar office	Planning Development and Works Section

		applications.	employee engagement. Advanced analytics and reporting capabilities will provide valuable insights into workforce trends, enabling data-driven decision-making and strategic workforce planning. By centralizing HR data and processes, HSTU will improve data accuracy, compliance, and organizational agility, fostering a positive work culture and driving organizational success.						
21.	Smart Account Management System Development	An online accounting software with cashless payment integration, financial reporting, and real-time transaction tracking.	HSTU's smart account management system will facilitate transparent and efficient financial transactions across the university. Implementing cashless payment systems and online account management portals, HSTU will streamline financial processes and enhance security. Real-time financial reporting and analytics will provide insights into expenditure patterns, enabling informed decision-making and budgetary control. Automated invoice processing and reconciliation will reduce manual errors and improve efficiency in accounts payable and receivable processes. By centralizing financial data and implementing robust controls, HSTU will ensure compliance with financial regulations and minimize the risk of fraud, ultimately enhancing financial transparency and	Smart Citizens/ Smart Government/ Smart Economy/ Smart Society	40%	80%	100%	Accounts Section	Planning Development and Works Section

			accountability.						
22.	Smart Budget Management System Development	A budgeting software with forecasting, scenario analysis, and automated alerts accessible through a web application.	HSTU's smart budget management system will enable effective allocation and monitoring of financial resources, ensuring financial sustainability and accountability. Through an integrated budgeting platform, HSTU will streamline budget planning, allocation, and monitoring processes. Advanced forecasting and scenario analysis tools will facilitate data-driven decision-making and enable proactive management of budgetary risks. Real-time budget tracking and reporting capabilities will provide stakeholders with visibility into expenditure patterns and variances, enabling timely corrective actions. Additionally, automated alerts and notifications will improve communication and facilitate budgetary control. By promoting transparency and accountability in budget management, HSTU will optimize resource allocation and support strategic objectives.	Smart Government/ Smart Economy	-	20%	100%	Treasurer office	Planning Development and Works Section

23.	Smart Audit Management System Development	An audit management platform with automated audit trails, compliance checks, and real-time risk monitoring.	HSTU's smart audit management system will enhance compliance and risk management processes, ensuring integrity and transparency in university operations. By implementing automated audit trails, real-time monitoring, and compliance checks, HSTU will improve efficiency and effectiveness in audit processes. Advanced analytics will enable the proactive identification of audit risks and opportunities for process improvement. Centralized documentation and audit evidence management will streamline audit preparation and ensure regulatory compliance. By leveraging technology to automate routine audit tasks and enhance audit quality, HSTU will mitigate audit risks, reduce compliance costs, and safeguard university assets and reputation.	Smart Government/ Smart Economy	-	20%	100%	Audit Cell	Planning Development and Works Section
24.	Smart Research Project Monitoring and Management System Development	A web-based research project management platform with project submission, grant and resource	HSTU's smart research project monitoring and management system will optimize project delivery processes, ensuring timely completion and effective utilization of resources. Through an integrated project management platform, HSTU will streamline project planning, scheduling, and execution. Real-time project tracking and progress reporting will	Smart Citizens/ Smart Government/ Smart Economy/ Smart Society	20%	50%	100%	IRT	Planning Development and Works Section

		allocation, task tracking, grant monitoring, and collaboration tools, accessible via web and mobile applications.	provide stakeholders with visibility into project status and performance metrics. Automated resource allocation and task assignment will optimize resource utilization and improve project efficiency. Additionally, collaborative tools and communication channels will facilitate stakeholder engagement and enhance project transparency. By promoting collaboration and accountability in project management, HSTU will achieve project objectives and deliver value to stakeholders.						
25.	Smart Meeting and Event Management System Development	An event management system with features for scheduling, attendee management, resource allocation, and feedback collection features available as a web and mobile app.	HSTU's smart meeting and event (training, workshop, seminar, etc.) management system will streamline the planning and execution of meetings and events, ensuring efficiency and effectiveness. Through an integrated platform, HSTU will automate meeting scheduling, attendee management, and resource allocation processes. Real-time availability and booking of meeting rooms and facilities will optimize resource utilization and reduce scheduling conflicts. Automated notifications and reminders will improve communication and facilitate participant engagement. Additionally, centralized documentation and event history tracking will ensure compliance with regulations and provide insights for	Smart Citizens/ Smart Government/ Smart Society	-	10%	100%	Planning Development and Works Section	Planning Development and Works Section

			process improvement. By leveraging technology to enhance meeting and event management processes, HSTU will improve productivity, collaboration, and overall satisfaction.						
26.	Smart Committee Management System Development	A committee management software with agenda creation, document sharing, and task tracking capabilities accessible through a web application.	HSTU's smart committee management system will enable efficient coordination and decision-making among university committees, ensuring alignment with organizational goals and priorities. Through an integrated committee management platform, HSTU will streamline agenda creation, document sharing, and action item tracking processes. Real-time access to meeting schedules, agendas, and minutes will facilitate collaboration and transparency among committee members. Automated workflows and task assignments will improve efficiency and accountability in committee operations. Additionally, advanced analytics and reporting capabilities will provide insights into committee performance and effectiveness. By promoting collaboration and accountability in committee management, HSTU will enhance governance and decision-making processes across the university.	Smart Citizens/ Smart Government/ Smart Society	20%	50%	100%	Planning Development and Works Section	Planning Development and Works Section

27.	Smart Online Journal Publication Management System Development	Web-based platform with submission, peer review, and publication tracking features.	HSTU's smart online journal publication management system will streamline the submission, review, and publication processes for academic research. Through a user-friendly online platform, researchers will submit their manuscripts, which will undergo a rigorous peer review process facilitated by automated workflows and communication tools. Editors and reviewers will have access to comprehensive dashboards and tools for efficient manuscript evaluation and decision-making. Once accepted, manuscripts will be seamlessly integrated into the publication pipeline, with automated formatting and scheduling features ensuring timely publication. The system will also provide post-publication metrics and analytics, enabling HSTU to track the impact and reach of published research. Overall, HSTU's smart publication management system will enhance the visibility, accessibility, and impact of academic research, fostering a culture of innovation and knowledge dissemination within the university community.	Smart Citizens/ Smart Government/ Smart Society	50%	100%	100%	IT cell, IRT, PRP	Planning Development and Works Section
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28.	Smart Campus Security and Safety System Development	Integrated surveillance system with AI analytics and mobile application for alerts.	HSTU's smart campus security system will integrate surveillance cameras, access control systems, and emergency notification platforms to enhance safety and security. AI-powered video analytics will enable proactive threat detection and automatic alerts for suspicious activities. Access control measures such as biometric scanners and RFID cards will regulate entry to campus buildings, while mobile apps and digital signage will provide real-time updates and instructions during emergencies, ensuring a swift and coordinated response.	Smart Citizens/ Smart Government/ Smart Society	-	20%	100%	Proctor office	Planning Development and Works Section
29.	Smart Energy Management System Development	Energy monitoring system with smart meters and automated controls.	HSTU will implement an intelligent energy management system to monitor, analyze, and optimize energy usage across campus facilities. Smart meters and sensors will collect real-time data on energy consumption, while advanced analytics tools will identify patterns, anomalies, and opportunities for energy savings. Automated controls and smart algorithms will adjust lighting, HVAC systems, and other energy-intensive equipment based on occupancy, weather conditions, and energy tariffs, reducing waste and lowering utility costs.	Smart Citizens/ Smart Government/ Smart Economy/ Smart Society	-	10%	100%	Engineering Section	Planning Development and Works Section

30.	Smart Waste Management System Development	IoT-enabled waste bins with a mobile application for scheduling pickups.	HSTU's smart waste management system will digitize and automate waste collection, sorting, and recycling processes using IoT sensors, smart bins, and data analytics. Sensors installed in waste bins will monitor fill levels and trigger alerts when bins need emptying, optimizing collection routes and schedules. Automated sorting technologies will segregate recyclable materials, while composting systems will process organic waste onsite. Integration with mobile apps and digital platforms will promote waste reduction, recycling initiatives, and environmental awareness among the HSTU community.	Smart Citizens/ Smart Governm ent/ Smart Economy/ Smart Society	-	10%	100%	Estate division	Planning Development and Works Section
31.	Smart Green Spaces Monitoring and Management System Development	Digital platform for sustainable landscaping and biodiversity conservation .	HSTU's green spaces management program will focus on sustainable landscaping practices, biodiversity conservation, and educational initiatives. Native plant species will be selected for landscaping to minimize water usage and support local ecosystems. Educational programs and guided tours will engage students, faculty, and the wider community in environmental stewardship and conservation efforts, fostering a culture of sustainability and ecological	Smart Society	-	10%	100%	Estate division	Planning Development and Works Section

			awareness at HSTU.						
32.	Panel for Student affairs and advisory division	Software development	Panel for Student Affairs & Advisory Division and Proctor office is a web-based application through which Proctor office and Student Affairs & Advisory Division can maintain various types of records of students.	Smart Citizens/ Smart Government/ Smart Society	100%	-	-	IT cell	
33.	Certificate printing application for Hon's and Postgraduate student	Software development	A certificate printing application for Honors students would typically be a specialized software that allows university administrative staff to easily generate, manage, and print certificates for students who have completed their Honors degree. This application would ensure that the certificates are properly formatted, contain all necessary information, and are ready for official use.	Smart Citizens/ Smart Government/ Smart Economy/	100%	-	-	IT cell	
34.	Online talented (PhD, post-doc.) faculty recruitment	Software development	Many skilled Bangladeshi scientists residing overseas encounter significant barriers when applying for university positions in Bangladesh. Historically, a large number faced rejections, and currently, such difficulties deter	Smart Citizens/ Smart Government/ Smart Economy/	50%	100%		IRT	Planning Development and Works Section

			nearly everyone—even those who wish to return due to familial ties and homesickness. To facilitate the return of these talented individuals, especially those holding Ph.D.s or postdoctoral qualifications, an overhaul of the traditional hiring process is recommended. The introduction of an online recruitment platform for talented faculty could serve as a solution. This approach would also benefit domestic Ph.D. holders, as an AI-driven web portal could properly evaluate and credit their experience through a standardized score or matrix						
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